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GENERAL AVIATION ACTIVITY AND AVIONICS SURVEY



JANUARY 1981



ANNUAL SUMMARY REPORT

1979 DATA

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Washington, D.C.

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DEPARTMENT OF TRANSPORTATION
BUREAU OF AVIATION
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16. Abstract <p>→ This report presents the results and a description of the 1979 General Aviation Activity and Avionics Survey. The survey was conducted during 1980 by the FAA to obtain information on the activity and avionics of the United States registered general aviation aircraft fleet, the dominant component of civil aviation in the U.S. The survey was based on a statistically selected sample of about 14.2 percent of the general aviation fleet and obtained a response rate of 71 percent. Survey results are based upon responses but are expanded upward to represent the total population.</p> <p>Survey results revealed that during 1979 an estimated 43.3 million hours of flying time were logged by the 210,339 active general aviation aircraft in the U.S. fleet, yielding a mean annual flight time per aircraft of 203.5 hours. The active aircraft represented about 85 percent of the registered general aviation fleet. The report contains breakdowns of these and other statistics by manufacturer/model group, aircraft type, state and region of based aircraft, and primary use. Also included are fuel consumption, lifetime airframe hours, avionics, and engine hours estimates.</p> <p>↖</p>			
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METRIC CONVERSION FACTORS

Approximate Conversions to Metric Measures				Approximate Conversions from Metric Measures			
Symbol	When You Know	Multiply by	To Find	Symbol	When You Know	Multiply by	To Find
LENGTH				LENGTH			
m	meters	2.5	inches	m	meters	0.04	inches
cm	centimeters	25	millimeters	cm	centimeters	0.4	inches
mm	millimeters	2.5	inches	mm	millimeters	0.039	inches
AREA				AREA			
m ²	square meters	10.8	square feet	m ²	square meters	1.1	square yards
cm ²	square centimeters	15.5	square inches	cm ²	square centimeters	0.15	square inches
mm ²	square millimeters	1.6	square millimeters	mm ²	square millimeters	0.0016	square inches
MASS (weight)				MASS (weight)			
g	grams	3.5	ounces	g	grams	0.0022	ounces
kg	kilograms	2.2	pounds	kg	kilograms	2.2	pounds
VOLUME				VOLUME			
l	liters	1.06	quarts	l	liters	0.00106	quarts
ml	milliliters	0.00106	quarts	ml	milliliters	0.00106	quarts
m ³	cubic meters	35.2	cubic feet	m ³	cubic meters	0.0000352	cubic feet
TEMPERATURE (exact)				TEMPERATURE (exact)			
°C	Celsius temperature	1.8	Fahrenheit temperature	°C	Celsius temperature	1.8	Fahrenheit temperature
°F	Fahrenheit temperature	0.56	Celsius temperature	°F	Fahrenheit temperature	0.56	Celsius temperature

PREFACE

This report presents the General Aviation Activity and Avionics Survey results compiled at the Transportation Systems Center (TSC) by the Statistical Design and Analysis Branch under Project Plan Agreement FA-143 sponsored by the Federal Aviation Administration (FAA), Office of Management Systems, Information and Statistics Division. The survey is the continuation of an FAA data collection program to gain information on the activities and avionics equipment of the general aviation aircraft fleet. The results represent the cumulative effort of several agencies within the Department of Transportation. TSC developed the survey method, sample design, and computer system for sample selection, data editing, and estimation of results. They also ran the system during survey production. Within the FAA, the Information and Statistics Division sponsored and coordinated the activities associated with the survey, the Data Systems Management Division was responsible for printing names, addresses and aircraft information on the questionnaires, and the Mike Monroney Aeronautical Center provided data tapes, conducted the telephone follow-up survey, and transferred the survey responses to machine readable forms.

The author would like to acknowledge contributions to this report by: Carolyn Edwards and Nicholas Soldo, AMS-220, who guided the project as sponsors and reviewed the report text; Thomas Cramer of Systems Development Corporation, who designed and programmed the original computer system for the survey; and Marilyn Marotta, also of SDC, who updated the system and performed the production runs to produce the estimates in this report.

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EXECUTIVE SUMMARY

This report presents the results of the third General Aviation Activity and Avionics Survey, conducted in 1980 by the Federal Aviation Administration to obtain information on the activities and avionics of the 1979 general aviation aircraft fleet, the major component of civil aviation in the United States. The FAA selected a statistically designed sample of about 14.2 percent of the registered general aviation fleet to participate in the survey. The sampled aircraft represented all states and FAA regions, and all of the major manufacturer/model groups of aircraft. The survey was conducted through a mailed questionnaire, with a telephone follow-up survey of a sample of non-respondents, yielding in total a response rate of 71 percent.

Some important survey findings appear below:

- An estimated 43.3 million hours of flying time were logged by the 210,339 active general aviation aircraft in the U.S. fleet during 1979. These aircraft had a mean annual flight time per aircraft of 203.5 hours and represented about 85 percent of the registered general aviation fleet.
- Turboprop aircraft flew over 510 hours per aircraft during 1979, more than any other aircraft type. Moreover, twin engine turboprops with thirteen or more seats flew more than 1000 hours per aircraft. In contrast, single engine piston powered aircraft averaged about 180 hours per aircraft during the year.
- The most common primary use of a general aviation aircraft was personal for an estimated 45 percent of the active fleet, followed by business for 24 percent of the fleet, and instructional for 7 percent of the fleet.
- The most populous region in terms of based aircraft was the Great Lakes Region, housing an estimated 18 percent of all registered general aviation aircraft, followed closely by the Western Region with 16 percent. The most populous state was California, housing 13 percent of the registered aircraft.
- Over 83 percent of the general aviation aircraft had two-way VHF communication equipment, almost 59 percent were equipped with 4096-code transponders, almost 55 percent had at least one component of an instrument landing system, and almost 80 percent had some form of navigation equipment.

- An estimated 41 percent of the active general aviation fleet flew by instrument flight rules (IFR) at some time during 1979. This represents a 4 percent increase over 1978.
- The general aviation aircraft fleet consumed an estimated 1,306 million gallons of fuel during 1979, 70 million gallons of aviation gasoline and 736 million gallons of jet fuel.

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1. INTRODUCTION

1.1 GENERAL

1.1.1 Purpose of Survey

The purpose of the General Aviation Activity and Avionics Survey is to provide the Federal Aviation Administration (FAA) with information on the activity and avionics of the general aviation fleet. Figure 1.1 underscores the importance of general aviation to the United States civil air fleet. During calendar year 1979 general aviation composed almost 99 percent of the U.S. civil air fleet¹, accounted for over 84 percent of civil operations at FAA towered airports², and logged over 85 percent of the total hours flown by the U.S. civil air fleet³. The information obtained from the survey enables the FAA to monitor the general aviation fleet so that it can, among other activities, anticipate and meet demand for National Airspace System facilities and services, assess the impact of regulatory changes on the general aviation fleet, and implement measures to assure the safe operation in the airspace of all aircraft.

1.1.2 Background

Prior to the current survey method, the FAA used the Aircraft Registration Eligibility, Identification, and Activity Report, AC Form 8050-73 in its data collection program on general aviation activity and avionics. The form, sent annually to all owners of civil aircraft in the U.S., served two purposes: (1) Part 1 was the mandatory aircraft registration renewal form; (2) Part 2 was voluntary and applied to general aviation aircraft only, asking questions on the owner-discretionary characteristics of the aircraft such as flight hours, avionics equipment, base location, and use. In 1978, the FAA replaced AC Form 8050-73 with a new system:

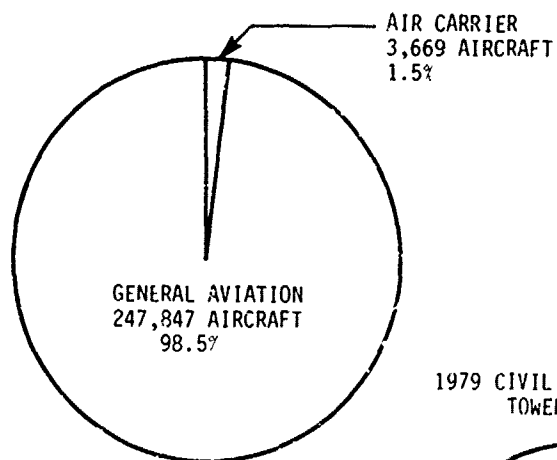
¹ Census of U.S. Civil Aircraft, Calendar Year 1979, U.S. Department of Transportation, Federal Aviation Administration, (Washington DC, 1980), p. 4.

² FAA Air Traffic Activity, Calendar Year 1979, U.S. Department of Transportation, Federal Aviation Administration, (Washington DC, 1979), p. 2.

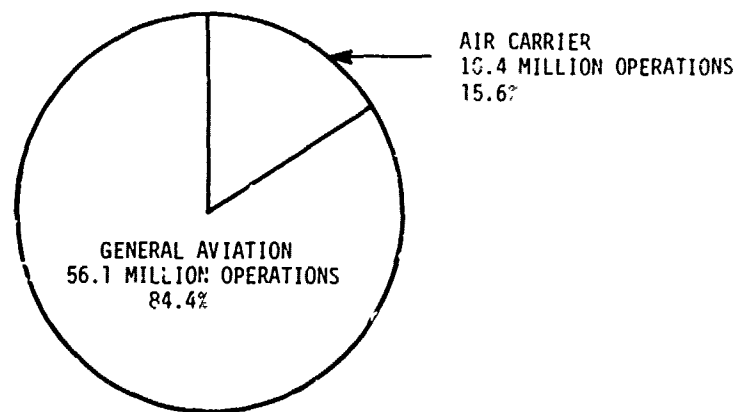
Note: General aviation as used in this report combines both general aviation and air taxi from the source above.

³ Air Carrier: Census of U.S. Civil Aircraft, Calendar Year 1979, U.S. Department of Transportation, Federal Aviation Administration, (Washington DC, 1980), p. 21. General Aviation: Table 2-1.

1979 U.S. CIVIL AIR FLEET



1979 CIVIL OPERATIONS AT FAA TOWERED AIRPORTS



1979 FLYING TIME

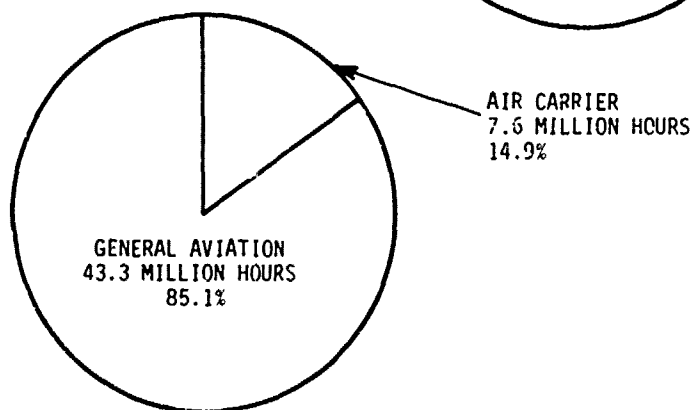


FIGURE 1.1. A CONTRAST OF GENERAL AVIATION AND AIR CARRIER ACTIVITY IN 1979

Part 1 was replaced by a triennial registration program; Part 2 was replaced by the General Aviation Activity and Avionics Survey, FAA Form 1800-54. (See Appendix A.3.) The survey was to be conducted annually based on a statistically selected sample of general aviation aircraft, requesting the same type of information as Part 2 of AC Form 8050-73. The first General Aviation Activity and Avionics Survey took place in 1978, collecting data on the 1977 general aviation aircraft fleet. The 1978 statistics in this report were derived from the third survey which took place in 1980. Benefits resulting from the new method of data collection included quicker processing of the results, improved data quality, and a considerable savings in time and money to both the public and the Federal Government. Specifically, the public reporting burden was reduced by an estimated 13,000 hours annually, and the cost savings to the public and Government were estimated to be one million dollars annually.

1.2 SURVEY COVERAGE

1.2.1 Aircraft

The General Aviation Activity and Avionics Survey covers, through a stratified probability sample, all general aviation aircraft registered in the United States. The term "general aviation", as used for this survey, is defined as all aircraft in the U.S. civil air fleet except those operated under Federal Aviation Regulations Parts 121 and 127. These two parts cover the operations of fixed wing aircraft and rotorcraft, respectively, that 1) have been issued a certificate of public convenience and necessity by the Civil Aeronautics Board authorizing the performance of scheduled air transportation over specified routes and a limited amount of non-scheduled operations, and 2) are used by large aircraft commercial operators. General aviation thus includes aircraft operated under:

- Part 91: General operating and flight rules.
- Part 123: Certification and operations: air travel clubs using large airplanes.
- Part 133: Rotorcraft external load operations.
- Part 135: Air taxi operators and commercial operators of small aircraft.
- Part 137: Agricultural aircraft operations.

General aviation offers such varied services as air taxi, air cargo, industrial, agricultural, business, personal, instructional, research, patrol, and sport flying. General aviation aircraft range in complexity from simple gliders and balloons to four engine turbojets.

Certain aircraft meeting the general aviation criteria have been excluded from the survey. This group consists of aircraft registered to dealers, aircraft in the process of being sold or with registration pending, and aircraft for which not enough information was available to categorize them properly for sampling purposes.

1.2.2 Geographic

The sample survey covers general aviation aircraft registered with the United States Aircraft Registry as of December 31, 1979. Over 99 percent of these aircraft are registered to owners living in the 50 states and Washington DC, with about 0.3 percent (675 aircraft) registered in Puerto Rico and other U.S. Territories, and 0.5 percent (954 aircraft) registered to owners living in foreign countries.¹

1.2.3 Content

Appendix A.3 contains a copy of the survey questionnaire, FAA Form 1800-54. The questionnaire requests the owner to provide information on the sampled aircraft's characteristics and uses for various time periods:

- 1) Hours by use, IFR hours, and fuel consumption for entire calendar year 1979,
- 2) Airframe hour reading and location of aircraft base as of December 31, 1979, and
- 3) Avionics equipment currently on board.

1.3 SURVEY METHOD

The main method of collecting data for this survey was the mail questionnaire, sent to the owners of the sampled aircraft in two mailings. The first mailing on February 29, 1980, covered all 35,145 aircraft in the sample and had a response rate of 55 percent as shown in Table 1-1 below. This was about 78 percent of the total responses to the survey. The second mailing conducted on March 31, 1980, included only those aircraft in the sample that had not yet responded. The second mailing had a response rate of 30 percent which accounted for 19 percent of the total responses to the survey. The combined response rate for the two mailings was 69 percent of the sample.

¹Source: FAA Aircraft Registration Master File as of December 31, 1979.

A telephone follow-up survey was conducted during June and early July using the same questions appearing in the mail survey. A sample of the mail non-respondents was selected for the telephone survey weighing most heavily those states and make-model groups in the sampling strata that had the lowest mail response rates. Of a total telephone sample of 3611 aircraft, only 850, or 24 percent, responses could be obtained due to difficulty in obtaining telephone numbers, finding owners at home, and obtaining cooperation of owners over the telephone. Nevertheless, the 850 telephone responses contributed the remaining three percent of the responses and increased the overall response rate of the survey to 71 percent.

TABLE 1-1. SUMMARY OF RESPONSE INFORMATION BY SURVEY PHASE

SURVEY PHASE	SAMPLE SIZE (S)	NUMBER OF RESPONSES (R)	RESPONSE RATE (R/S X 100%)	PORTION OF TOTAL RESPONSE [(R/TOTAL R) X 100%]
FIRST MAILING	35,145	19,361	55%	78%
SECOND MAILING	15,784	4,757	30%	19%
COMBINED MAILINGS	35,145	24,118	69%	97%
TELEPHONE SURVEY	3,611	850	24%	3%
TOTAL	35,145	24,968	71%	100%

1.4 SUMMARY OF SURVEY RESULTS¹

1.4.1 National Scene

Results of the General Aviation Activity and Avionics Survey at the national level revealed that during 1979 an estimated 43.3 million hours of flying time were logged by the 210,339 active general aviation aircraft in the U.S. fleet, yielding a mean annual flight time per aircraft of 203.5 hours. These active aircraft comprised 85 percent of the registered general aviation fleet. The statistics for 1979 showed a 9.9 percent increase in flying hours, a 5.8 percent increase in the number of active aircraft

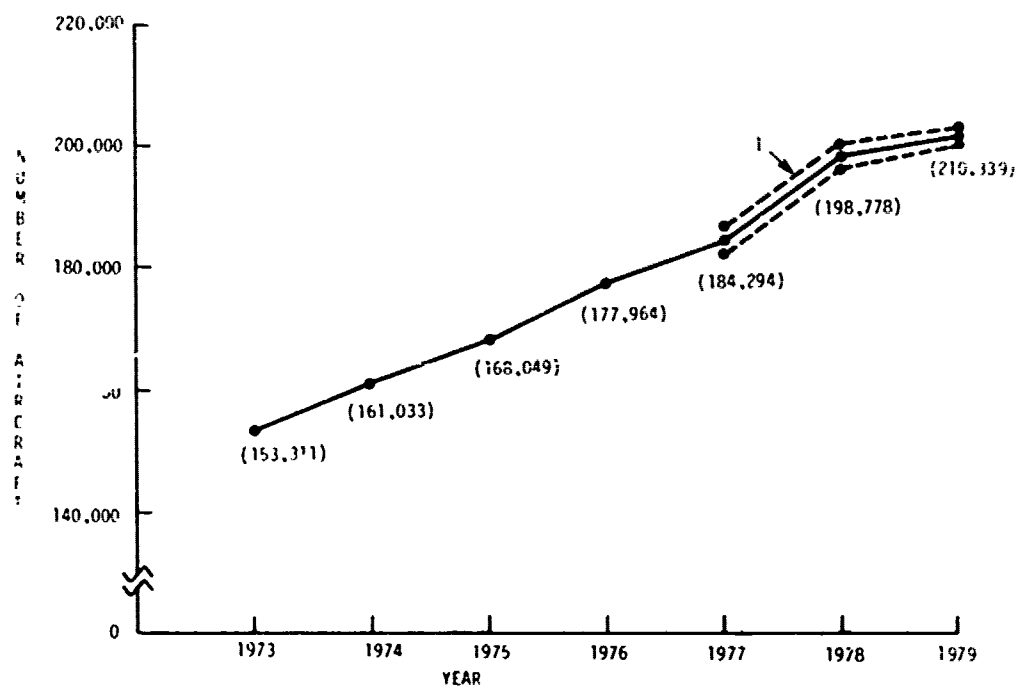
¹See Appendix B.1 for a discussion of effects of changes in the sample frame on the survey results.

in the general aviation fleet, and a 2.9 percent increase in mean hours per aircraft over the comparable figures for 1978. Longer term trends for these variables are found in Figures 1.2, 1.3, and 1.4. From 1973 to 1979 both the active fleet and the total hours flown exhibited growth trends which increased at approximately the same rates, but mean hours per aircraft showed more year-to-year variation. As the quotient of total hours divided by active fleet size, mean hours are sensitive to small differences between the growth rates of total hours and fleet size. Consequently, mean hours dip from about 195 hours per aircraft in 1973 and 1974 to about 191 hours per aircraft in 1975 and 1976, then climb steadily to their 1979 level of 203.5 hours per aircraft.

1.4.2 Results by Aircraft Type

Although both the total flight time and the active aircraft count for the general aviation fleet grew at about the same annual rate (6.34 percent and 5.41 percent, respectively) from 1973 through 1979, significant deviations from these mean fleet rates occurred among the individual aircraft types. The following two tables illustrate this point. Tables 1-2 and 1-3 contain the six-year trends in growth for total hours flown and active aircraft, respectively. The last column in both tables is the compound annual growth rate for the aircraft type from 1973 to 1979. In Table 1-2 the fastest growth of any type in terms of total hours flown occurred to the turbine-powered rotorcraft with an average annual growth rate of 21.59 percent. They were followed by twin engine turboprops with 1-12 seats at 13.98 percent, and twin engine turbojets at 11.20 percent. In contrast, single engine piston airplanes with 1-3 seats and large twin engine turboprops experienced very little growth during the period. In general, it was the activity of the more sophisticated aircraft in the general aviation fleet that grew faster than the other components of the fleet. Similar results are shown in Table 1-3 for the active aircraft counts.

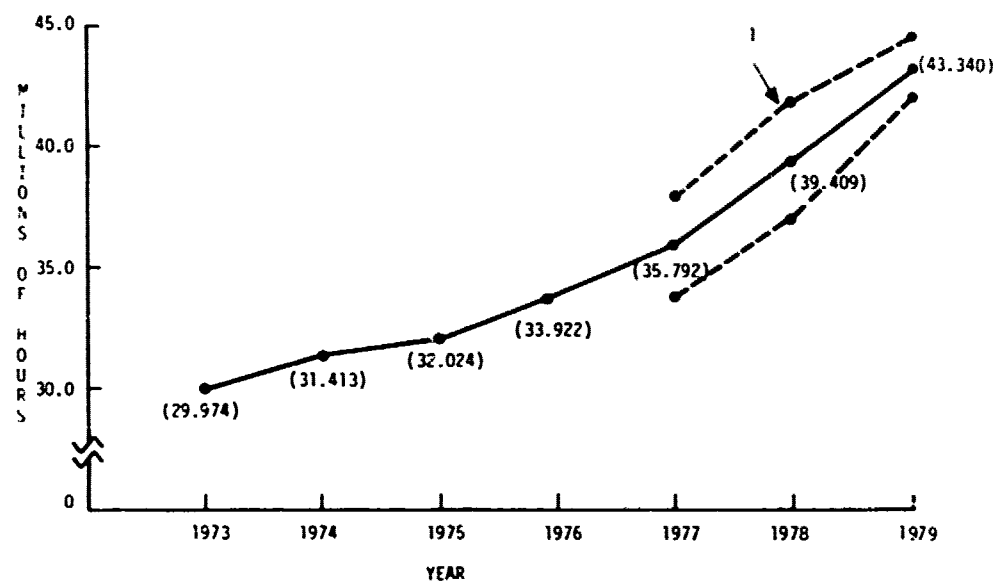
There was a great deal of variation in activity among the general aviation aircraft types in terms of three measures resulting from the survey: total hours flown, number of active aircraft, and mean hours flown. Figure 1.5 highlights the variation, as well as the relationship of these three measures to each other. Distance along the vertical axis indicates mean flight hours per aircraft, distance along the horizontal axis indicates the relative portion of the active fleet belonging to each aircraft type, and the area within each box is proportional to the total flying time for the aircraft type. Thus, it is evident that in terms of sheer numbers, single engine piston aircraft dominated the active fleet and contributed the largest portion of total flying time, yet had one of the lowest mean flight times per aircraft. In contrast, the turboprops, turbojet aircraft, and rotorcraft had low representation in the active fleet but contributed a relatively high proportion of flight time resulting in the greatest mean flight hours of any of the major aircraft types.



1. The dotted lines represent a 95% confidence interval for the 1977 -- 1979 true values. See Appendix B.

Source: Table 1-3

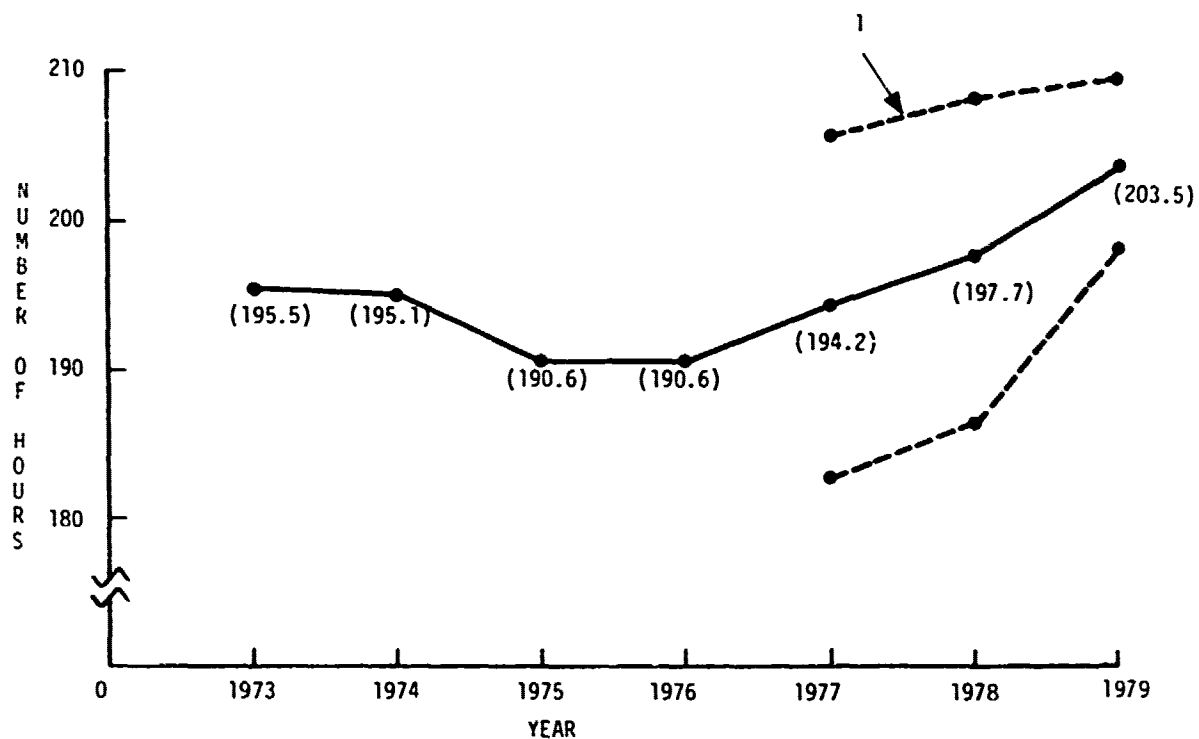
FIGURE 1.2. GENERAL AVIATION ACTIVE FLEET SIZE 1973 - 1979



1. The dotted lines represent a 95% confidence interval for the 1977 -- 1979 true values. See Appendix B.

Source: Table 1-2

FIGURE 1.3. GENERAL AVIATION TOTAL FLYING TIME 1973 - 1979



1. The dotted lines represent a 95% confidence interval for the 1977 -- 1979 true values. See Appendix B.

FIGURE 1.4. MEAN ANNUAL FLYING TIME PER ACTIVE GENERAL AVIATION AIRCRAFT 1973 - 1979

TABLE 1-2. GROWTH OF GENERAL AVIATION TOTAL HOURS FLOWN
BY AIRCRAFT TYPE, 1973 - 1979

(THOUSANDS OF HOURS)

AIRCRAFT TYPE	<u>1973¹</u>	<u>1976¹</u>	<u>1979²</u> (Standard Error)	COMPOUND ANNUAL GROWTH RATE IN %
FIXED WING				
1-engine piston 1-3 seats	9,722	9,640	11,180 (384)	2.36
1-engine piston 4+ seats	12,025	14,688	19,109 (420)	8.03
2-engine piston 1-6 seats	3,243	3,220	4,006 (148)	3.58
2-engine piston 7+ seats	1,724	2,081	2,855 (137)	8.77
Other piston	84	84	152 (15)	10.39
2-engine turboprop 1-12 seats	572	785	1,254 (57)	13.98
2-engine turboprop 13+ seats	508	521	572 (45)	2.00
Other turboprop	37	20	45 (2)	3.32
2-engine turbojet	595	844	1,125 (39)	11.20
Other turbojet	89	67	134 (9)	7.06
ROTORCRAFT				
Piston	654	753	892 (97)	5.31
Turbine	515	950	1,664 (108)	21.59
OTHER	207	270	353 (29)	9.30
TOTAL AIRCRAFT HOURS	29,974	33,922	43,340 (627)	6.34

¹ FAA revised data as of December 1978.

² See Appendix B.1 for description of changes in the sample frame from prior years.

TABLE 1-3. GROWTH OF ACTIVE GENERAL AVIATION FLEET BY
AIRCRAFT TYPE, 1973 - 1979

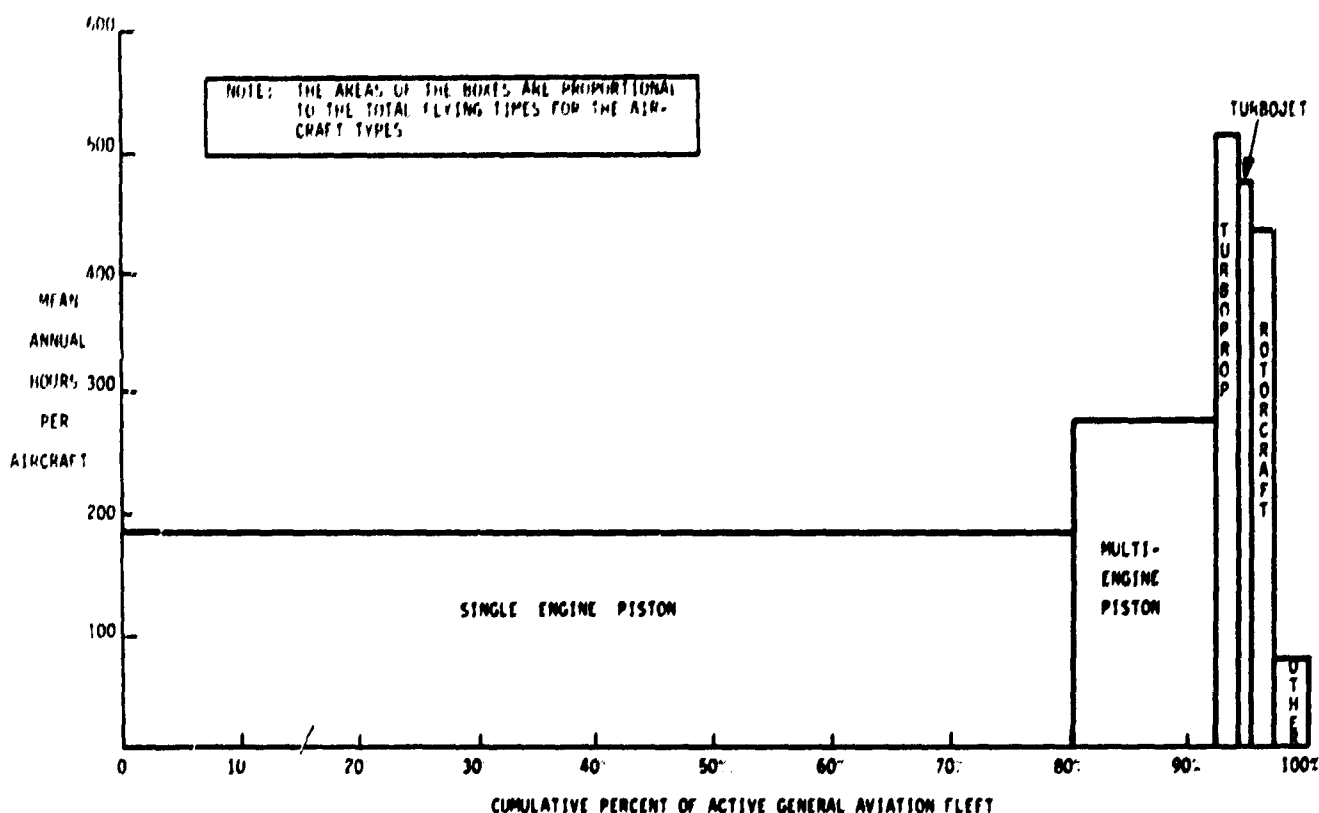
(NUMBER OF AIRCRAFT)

AIRCRAFT TYPE	1973 ¹	1976 ¹	1979 ² (Standard Error)	COMPOUND ANNUAL GROWTH RATE IN %
FIXED WING				
1-engine piston 1-3 seats	51,218	56,547	62,362 (594)	3.34
1-engine piston 4+ seats	74,856	88,205	106,028 (450)	5.97
2-engine piston 1-6 seats	13,454	14,617	16,891 (157)	3.86
2-engine piston 7+ seats	5,048	6,494	7,958 (90)	7.88
Other piston	190	196	229 (11)	3.16
2-engine turboprop 1-12 seats	1,268	1,889	2,944 (13)	15.07
2-engine turboprop 13+ seats	509	507	538 (15)	0.93
Other turboprop	72	57	96 (3)	4.91
2-engine turbojet	1,196	1,692	2,309 (29)	11.59
Other turbojet	184	189	343 (6)	10.94
ROTORCRAFT				
Piston	2,122	2,701	3,123 (127)	6.65
Turbine	993	1,724	2,740 (50)	18.43
OTHER	2,201	3,146	4,770 (114)	13.76
TOTAL AIRCRAFT	153,311	177,964	210,339 (789)	5.41

¹FAA revised data as of December 1978.

²See Appendix B.1 for description of changes in sample frame from prior years.

The general aviation aircraft fleet consumed an estimated 1,306 million gallons of fuel during 1979, 570 million gallons of aviation gasoline and 736 million gallons of jet fuel. From Figure 1.6 it is evident that turbojet and turboprop engines consume fuel at much higher rates than piston engines. In fact, turbojets with more than 2 engines consume over 1000 gallons of jet fuel an hour on the average. The high rates account for turbojets' burning 37 percent of all fuel consumed in 1979, as shown in Figure 1.7. Single and twin engine piston aircraft together account for 39 percent of the fuel consumed in 1979 due to their high representation in the general aviation fleet. Table 2-18 shows more detailed fuel consumption estimates and their standard errors.



Source: Table 2-1

FIGURE 1.5. 1979 GENERAL AVIATION ACTIVITY MEASURES BY AIRCRAFT TYPE

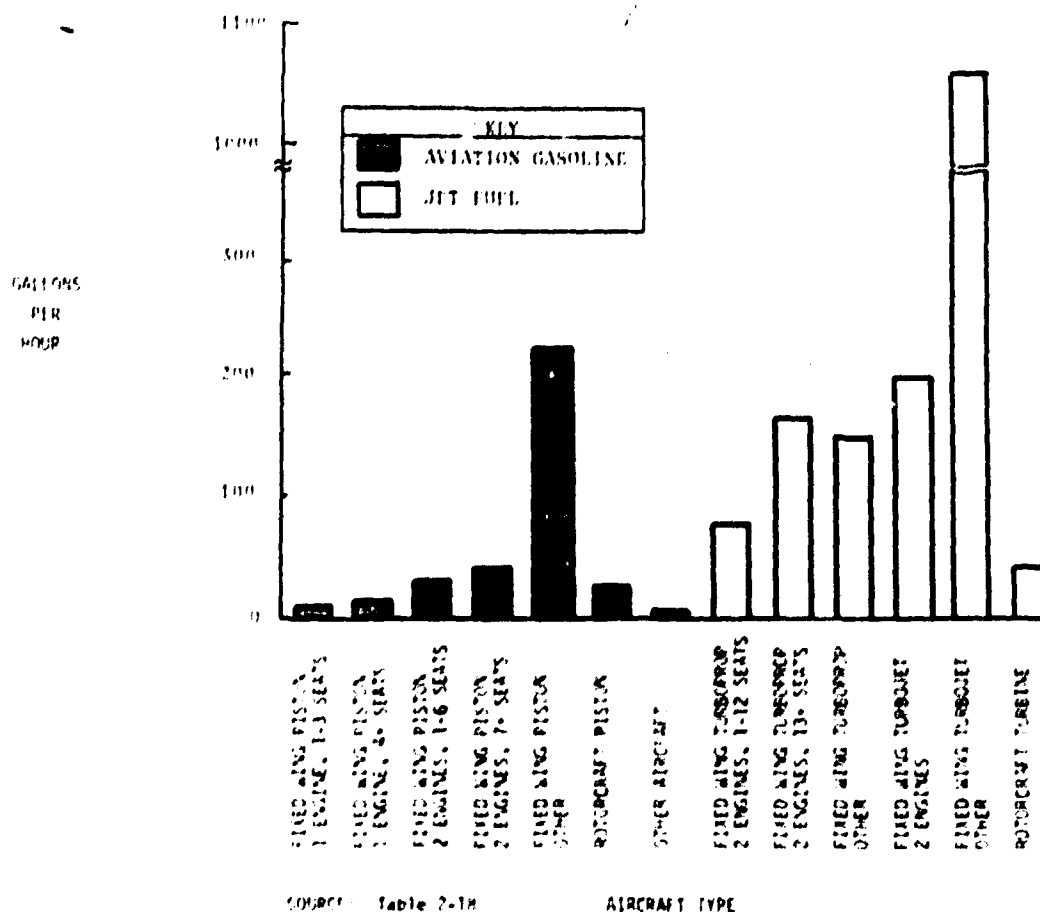


FIGURE 1.6. 1979 MEAN FUEL CONSUMPTION RATES BY AIRCRAFT TYPE

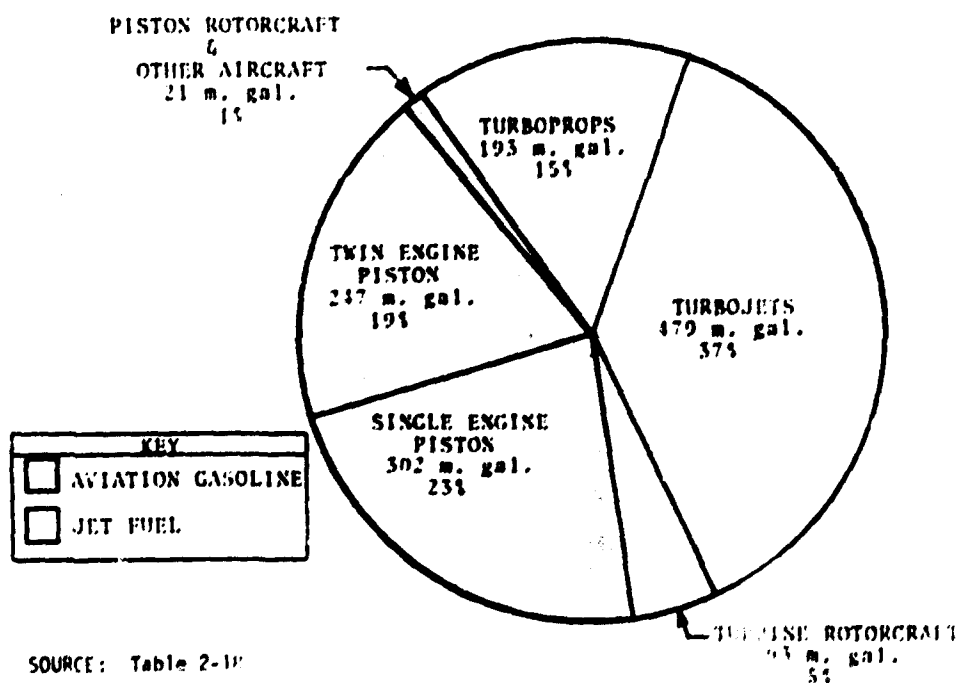


FIGURE 1.7. 1979 ESTIMATED FUEL CONSUMPTION BY AIRCRAFT TYPE

1.4.3 Results by Primary Use

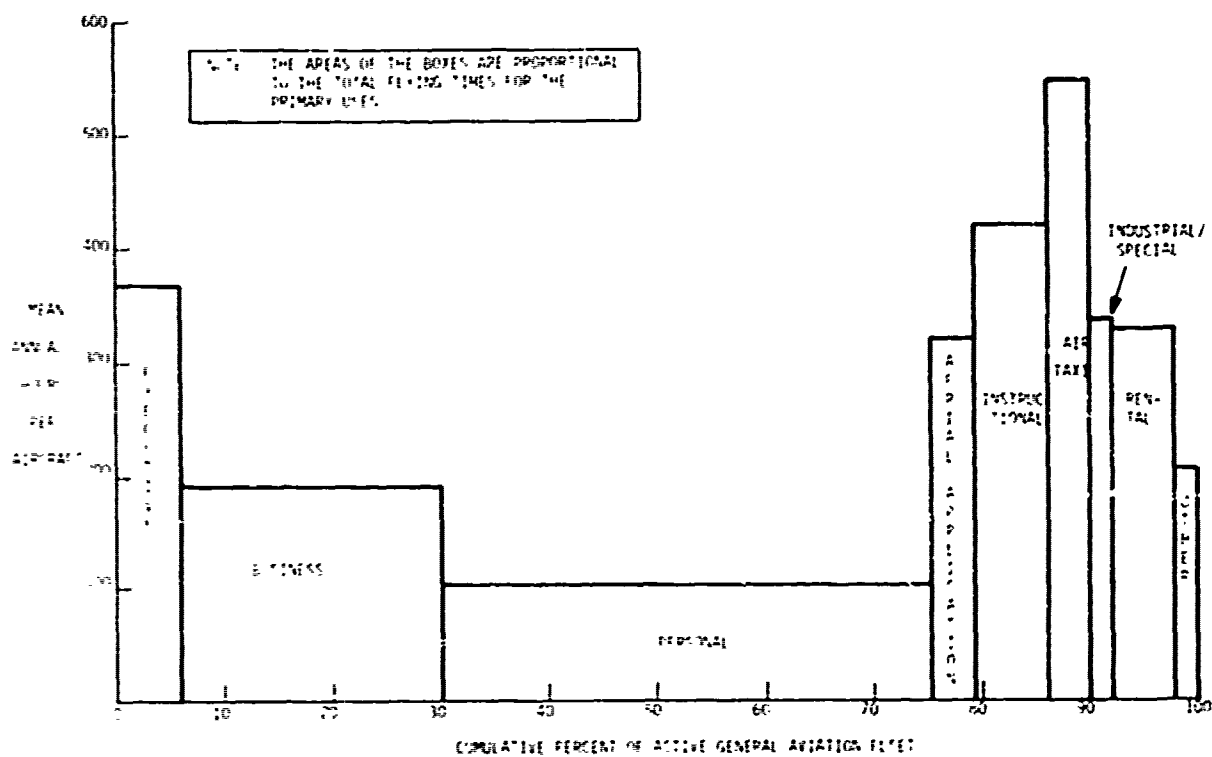
Like aircraft types, primary uses were differentiated by their activity characteristics, as shown in Figure 1.8. Distance along the vertical axis indicates mean hours per aircraft, distance along the horizontal axis indicates the relative portion of the active fleet engaged in each primary use, and the area within each box is proportional to the total flying time for each primary use. Aircraft used as air taxis and for instructional and executive purposes showed high individual usage with mean hours per aircraft of 544.4, 418.1, and 366.7, respectively. General aviation aircraft were used most commonly for personal and business purposes, representing 45 and 24 percent of the active fleet. Due either to their high representation in the fleet or to their high individual usage, personal, business, executive, air taxi and instructional use aircraft together accounted for 80 percent of the total hours flown by the general aviation fleet.

1.4.4 Results by FAA Region

Mean aircraft usage did not differ significantly from region to region with the exception of the Pacific and European (Foreign) Regions, according to Figure 1.9. In the figure, distance along the vertical axis indicates mean annual hours per aircraft, distance along the horizontal axis indicates the relative portion of the active fleet based in each region, and the area within each box is proportional to the total flying time occurring in each region. It can be seen that the Great Lakes Region accounted for more active aircraft and more total flight time than any of the other regions, although the Southern, Southwestern, and Western Regions are close behind. The smallest region in continental United States was New England, with only four percent of the active aircraft and about three percent of the fleet's total flight time. Tables 2-3 and 2-8 contain more estimates by region; Tables 2-2 and 2-7 show similar estimates by state of aircraft base.

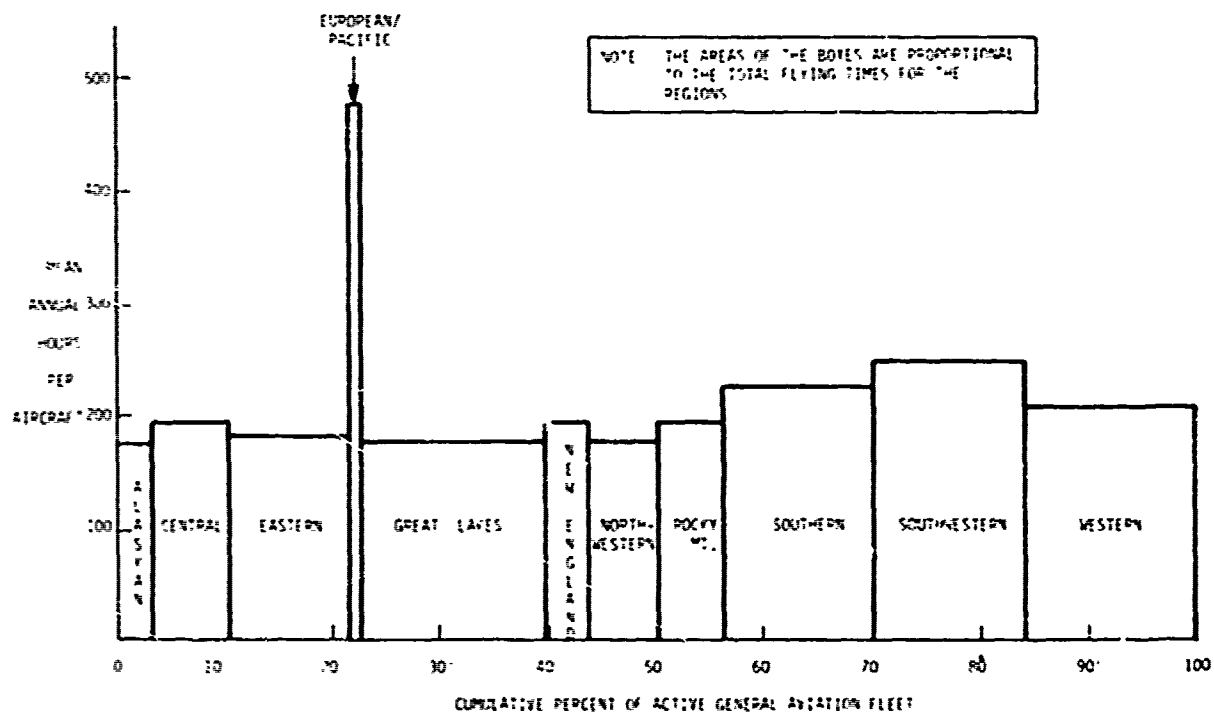
1.4.5 Other Results

The extent to which general aviation aircraft are furnished with on-board avionics equipment was a principal finding of the survey. A summary appears in Figure 1.10. Over 83 percent of the aircraft have two-way VHF communications, almost 59 percent are equipped with 4096-code transponders, almost 55 percent have at least one component of an instrument landing system, and almost 80 percent have some form of navigation equipment. It is evident from comparing the 1979 and 1978 avionics estimates that the general aviation fleet is becoming more sophisticated in terms of its avionics equipment. Within two-way communications, for example, there was a significant shift from 360 channel to 720 channel equipment. Likewise within VOR receivers there was a shift from 100 channel to 200 channel equipment. The proportion of the general aviation fleet with transponders increased from 53.3 percent



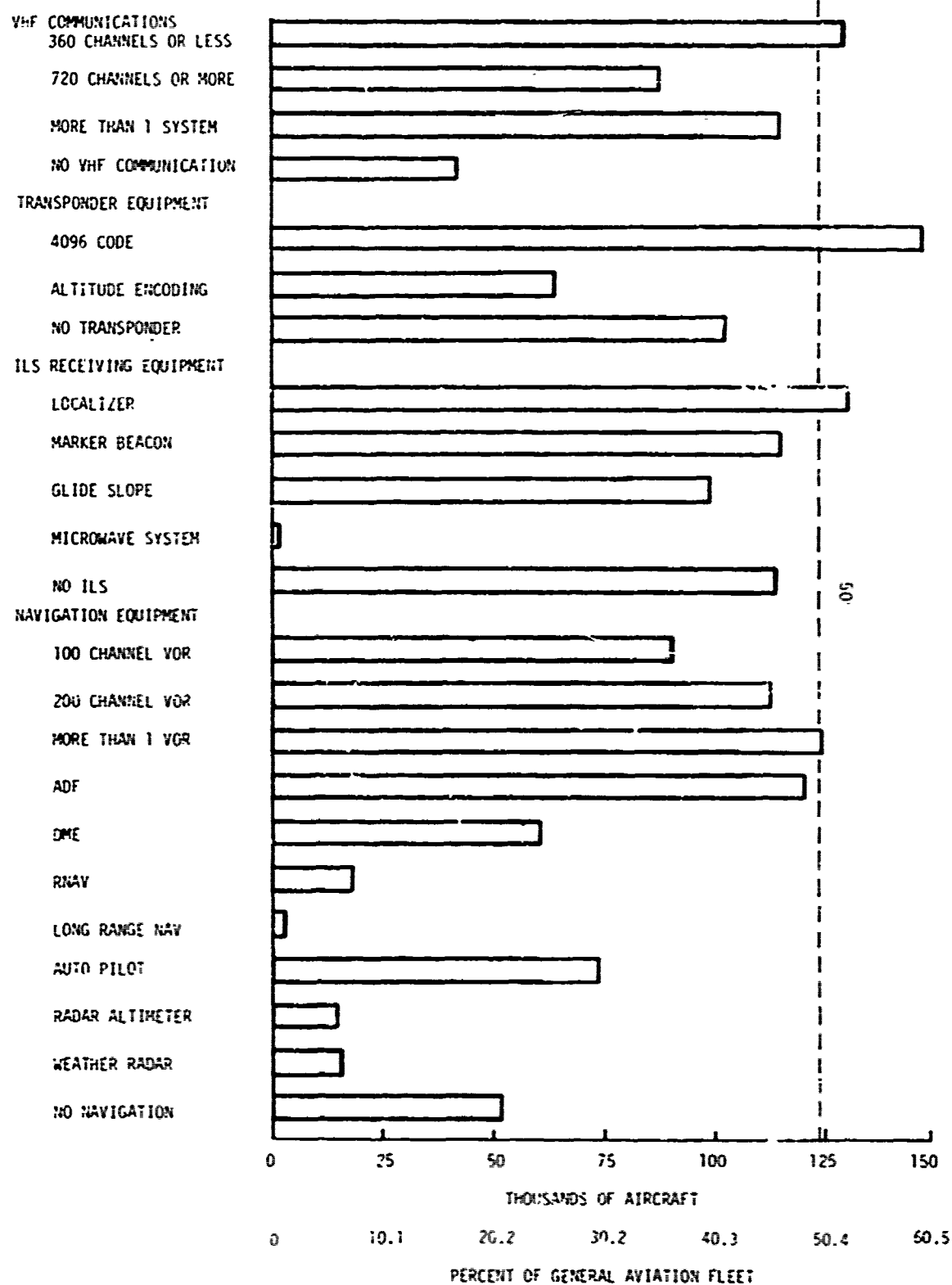
Source: Tables 2-4 and 2-5

FIGURE 1.8. 1979 GENERAL AVIATION ACTIVITY MEASURES BY PRIMARY USE



Source: Table 2-3

FIGURE 1.9. 1979 GENERAL AVIATION ACTIVITY MEASURES BY FAA REGION



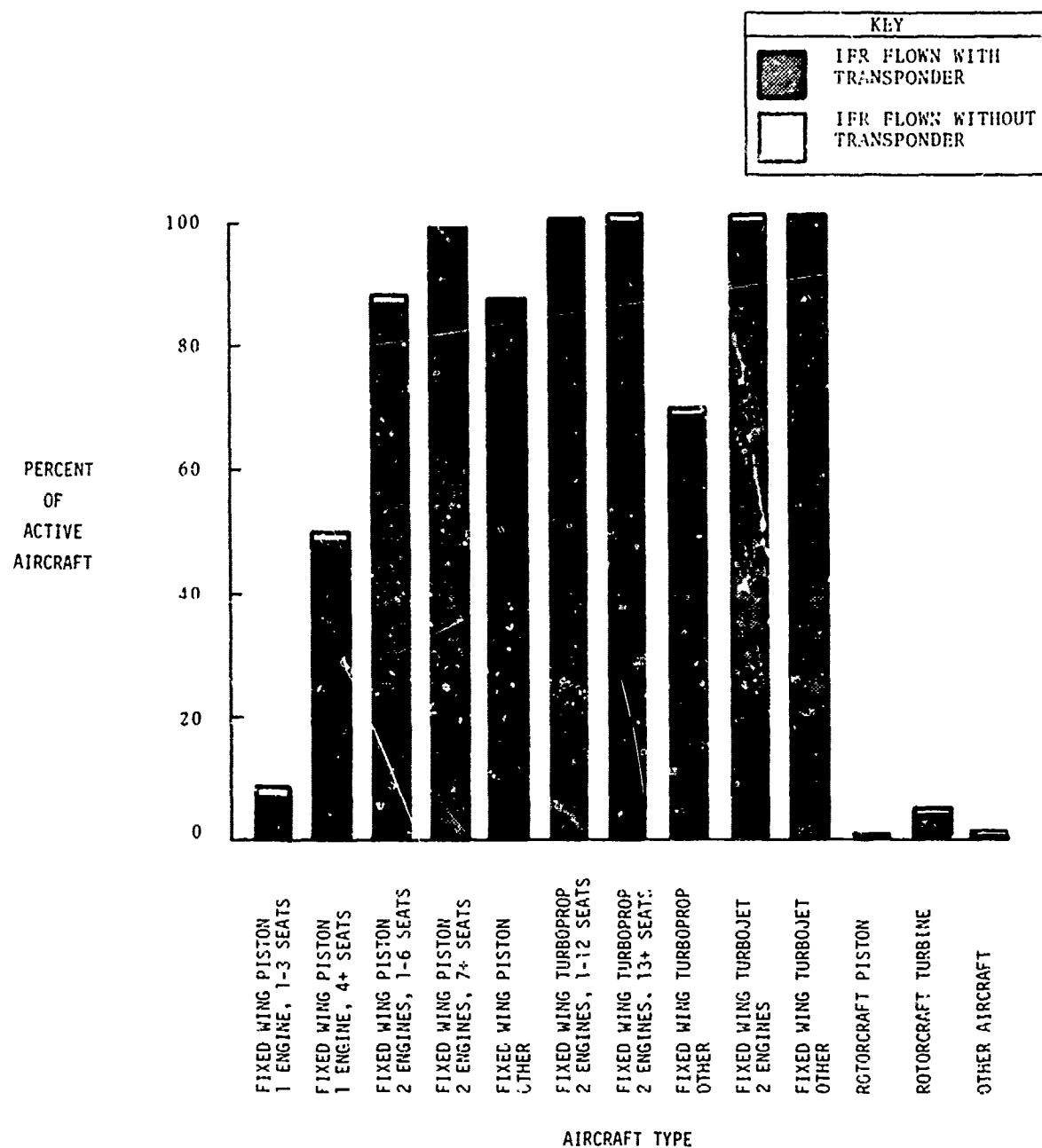
SOURCE: Table 2-13

FIGURE 1.10. AVIONICS EQUIPMENT IN THE 1979 GENERAL AVIATION AIRCRAFT FLEET

to 58.9 percent, and the proportion with at least one part of an ILS increased from 51.0 percent to 54.2 percent. The proportion of aircraft having two or more communications systems and the proportion with two or more VOR receivers increased by four percent from 1978 to 1979. More detailed breakdowns of avionics by aircraft type, state, region, and primary use are provided in Tables 2-12 through 2-15.

Figure 1.11 shows the portion of active aircraft of each type which engaged in IFR (Instrument Flight Rules) flight during 1979 and further, the portions that flew IFR with and without transponder equipment. It can be seen that almost all active twin engine piston aircraft, turboprops, and turbojets flew IFR at some time during 1979 and were equipped with transponders. A much lower proportion of the active single engine piston aircraft and rotorcraft in the fleet flew IFR during the year, and not all were equipped with transponders.

Additional results to those discussed above are found in the tables in Section 2. Estimates of total hours, mean hours, lifetime airframe hours, and number of active aircraft for over 300 SDR manufacturer/model groups of general aviation aircraft are found in Tables 2-5, 2-11, and 2-16. Appendix D contains definitions of these groups. The report also includes a table on mean hours and number of active engines for almost 90 different manufacturer/model groups of engines. Appendix E contains definitions of these groups.



SOURCE: Table 2-10

FIGURE 1.11. GENERAL AVIATION ACTIVE AIRCRAFT IFR FLOWN AND TRANSPONDER EQUIPPED IN 1979

2. TABLES OF RESULTS

TABLE 2-1 GENERAL AVIATION TOTAL HOURS FLOWN BY TYPE OF AIRCRAFT - CY 1979 (1 of 2)

AIRCRAFT TYPE	POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	STANDARD ERROR	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
FIXED WING PISTON									
1 ENG 1-3 SEATS	83970	62362	594	11179991	384041	3.4	180.2	6.0	3.3
1 ENG 4+ SEATS	115507	106028	450	15109020	419714	2.2	180.2	3.9	2.2
TOTAL 1 ENG	199477	168390	745	30289011	568901	1.9	180.2	3.3	1.8
2 ENG 1-6 SEATS	18071	16891	157	4006461	140185	3.7	236.7	8.5	3.6
2 ENG 7+ SEATS	9271	7958	90	2854750	137107	4.8	356.5	16.0	4.5
TOTAL 2 ENG	27342	24850	181	6861212	201884	2.9	273.2	7.6	2.8
OTHER PISTON	389	229	11	151811	14595	9.6	650.4	27.9	4.3
TOTAL PISTON	227208	193470	767	37302035	603836	1.6	191.8	3.0	1.6
TURBOPROP									
2 ENG 1-12 SEATS	2986	2944	13	1254224	57357	4.6	428.4	15.1	4.5
2 ENG 13+ SEATS	584	538	15	572426	45388	7.9	1047.1	68.4	6.5
TOTAL 2 ENG	3570	3482	20	1826650	73143	4.0	513.1	19.0	3.7
OTHER TURBOPROP	132	96	3	44655	2255	5.0	465.0	2.9	0.6
TOTAL TURBOPROP	3702	3579	21	1871315	73178	3.9	511.7	18.4	3.6
TURBOJET									
2 ENG	2383	2309	29	1124694	38445	3.4	487.5	15.8	3.2
OTHER	551	343	6	134200	9388	7.0	382.2	21.3	5.6
TOTAL TURBOJET	2934	2653	30	1258895	39769	3.2	473.7	14.0	3.0
TOTAL FIXED WING	233844	199703	768	40432246	609553	1.5	200.2	3.0	1.5
ROTORCRAFT PISTON									
	5346	3123	127	851537	97468	10.9	284.3	27.2	9.6

TABLE 2-1 GENERAL AVIATION TOTAL HOURS FLOWN BY TYPE OF AIRCRAFT - CY 1979 (2 of 2)

AIRCRAFT TYPE	POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	STANDARD ERROR	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
TURBINE	3024	2740	50	1663620	108368	6.5	609.3	38.1	6.2
TOTAL ROTORCRAFT	8370	5864	136	2555187	145752	5.7	433.5	22.8	5.3
OTHER	5856	4770	114	352644	29069	8.2	72.7	5.2	7.2
TOTAL AIRCRAFT	248070	210339	789	43340081	627411	1.4	203.5	2.9	1.4

TABLE 2-2 GENERAL AVIATION TOTAL HOURS FLOWN BY STATE OF BASED AIRCRAFT - CY 1979 (1 of 3)

STATE	ESTIMATE OF ACTIVE POPULATION	STANDARD ERROR	ESTIMATE OF TOTAL HOURS	STANDARD ERROR
ALABAMA	2561	290	476617	78006
ALASKA	5842	392	1032044	129335
ARIZONA	4525	351	988814	135292
ARKANSAS	2664	290	533248	81716
CALIFORNIA	27980	908	5725564	369659
COLORADO	4560	389	920392	112132
CONNECTICUT	1870	237	267344	72359
DELAWARE	710	148	129850	38412
DC	62	35	23661	14007
FLORIDA	10662	590	2574376	278846
GEORGIA	4121	371	846749	141378
HAWAII	530	130	255197	75791
IDaho	2112	265	329348	55247
ILLINOIS	8193	520	1404884	147683
INDIANA	4569	397	912868	172545
IOWA	3545	345	635283	121247
KANSAS	3848	364	779073	113311
KENTUCKY	1534	228	390322	115866
LOUISIANA	3526	325	1314487	177060
MAINE	1077	191	179671	46467
MARYLAND	2492	254	407905	68675

TABLE 2-2 GENERAL AVIATION TOTAL HOURS FLOWN BY STATE OF BASED AIRCRAFT - CY 1979 (2 of 3)

STATE	ESTIMATE OF ACTIVE POPULATION	STANDARD ERROR	ESTIMATE OF TOTAL HOURS	STANDARD ERROR
MASSACHUSETTS	2787	315	600618	106140
MICHIGAN	7279	499	1270219	128428
MINNESOTA	4772	398	986314	138925
MISSISSIPPI	2337	281	636025	123792
MISSOURI	4162	375	787259	109124
MONTANA	2467	298	362953	67773
NEBRASKA	2569	299	475100	93205
NEVADA	1827	241	370724	81187
NEW HAMPSHIRE	1016	178	184461	53722
NEW JERSEY	3962	369	708639	97639
NEW MEXICO	2217	270	429915	68030
NEW YORK	6168	454	951246	117610
NORTH CAROLINA	4017	371	742003	104857
NORTH DAKOTA	1482	228	342240	82440
OHIO	7687	508	1052862	109984
OKLAHOMA	4358	394	1153127	178106
OREGON	5729	436	1104771	145799
PENNSYLVANIA	5907	438	1133857	138261
RHODE ISLAND	413	120	84536	27489
SOUTH CAROLINA	1667	238	374755	86224
SOUTH DAKOTA	1495	225	274562	6377
TENNESSEE	2498	287	492215	80804
TEXAS	17519	735	4033590	303315
UTAH	1623	238	356147	75718
VERMONT	442	121	88075	36464
VIRGINIA	2756	309	597680	119315

TABLE 2-2 GENERAL AVIATION TOTAL HOURS FLOWN BY STATE OF BASED AIRCRAFT - CY 1979 (3 of 3)

STATE	ESTIMATE OF ACTIVE POPULATION	STANDARD ERROR	ESTIMATE OF TOTAL HOURS	STANDARD ERROR
WASHINGTON	6576	468	1096245	139116
WEST VIRGINIA	1156	204	198463	46200
WISCONSIN	4100	368	829744	116762
WYOMING	1197	203	194702	43678
PUERTO RICO	438	117	143577	42753
OTHER U.S. TERRITORIES	237	99	113510	51668
FOREIGN	994	165	414182	118823
TOTAL	210339	789	43340081	627411

NOTE : CCLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION FACEDURES.

TABLE 2-3 GENERAL AVIATION TOTAL HOURS FLOWN BY REGION OF BASED AIRCRAFT - CY 1979

REGION	ESTIMATE OF ACTIVE POPULATION	STANDARD ERROR	ESTIMATE OF TOTAL HOURS	STANDARD ERROR
ALASKA	5842	392	1032044	129335
CENTRAL	14106	679	2676301	204941
EASTERN	23217	843	4212253	236503
EUROPEAN	305	84	131188	40618
GREAT LAKES	36563	1029	6526425	305556
NEW ENGLAND	7407	496	1420373	142564
NORTHWESTERN	14472	679	2580185	210542
PACIFIC	492	153	338072	89598
ROCKY MOUNTAIN	12605	646	2469602	175695
SOUTHERN	30193	943	4850032	369131
SOUTHWESTERN	30806	938	7701442	402678
WESTERN	34333	989	7146392	395686
TOTAL	210339	785	43340081	627411

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCESSES

TABLE 2-4 GENERAL AVIATION TOTAL HOURS FLOWN BY AIRCRAFT TYPE AND PRIMARY USE - CY 1979
(1 of 3)

AIRCRAFT TYPE	TOTAL	EXECUTIVE	BUSINESS	PERSONAL	AERIAL APPL	INSTRUC-TIONAL	AIR TAXI	INDUS-TRIAL	AERIAL	OTHER
FIXED WING										
PISTON										
1 ENG 1-3 SEATS	11:7991	20336	733201	2819995	1923355	3870920	34928	231732	1121824	278855
EST-TOT.HOURS	3.4	22.9	12.3	5.3	4.9	8.7	70.4	27.7	14.4	19.2
% STD. ERROR										
1 ENG 4+ SEATS	19109020	902121	5507354	5892460	65592	2206220	1008536	433020	2828581	281078
EST-TOT.HOURS	2.2	16.5	4.2	3.6	39.9	11.2	13.1	22.1	7.5	10.0
% STD. ERROR										
TOTAL 1 ENG	30289011	1107488	6241103	8722496	1588580	6076645	1042369	665280	3951124	561004
EST-TOT.HOURS	1.9	14.0	4.0	3.0	5.0	6.9	12.9	17.3	7.0	13.7
% STD. ERROR										
2 ENG 1-4 SEATS	4006461	829278	1560388	355343	4629	224109	77350	110205	92387	53517
EST-TOT.HOURS	3.7	11.4	6.8	11.9	79.8	20.0	14.8	34.8	28.5	30.5
% STD. ERROR										
2 ENG 7+ SEATS	2894750	774390	718564	119014	14630	7071	1094951	35402	34600	21562
EST-TOT.HOURS	4.8	8.9	12.0	25.9	26.5	53.3	11.5	31.7	47.0	29.9
% STD. ERROR										
TOTAL 2 ENG	6891212	1604385	2268871	471747	19301	231587	1854355	130880	126606	84916
EST-TOT.HOURS	2.9	7.3	5.9	10.9	26.6	19.1	9.3	27.5	24.7	12.4
% STD. ERROR										
OTHER PISTON	151811	0	18479	1897	21864	703	72949	0	32774	2525
EST-TOT.HOURS	9.6	0.0	26.4	50.4	35.4	54.9	5.0	0.0	23.2	37.9
% STD. ERROR										
TOTAL PISTON	37302035	2715649	8485301	9209295	2037354	6314745	2952640	807209	4165671	651332
EST-TOT.HOURS	1.5	7.2	3.4	2.9	4.9	6.6	7.6	15.3	6.8	12.1
% STD. ERROR										
TURBOPROP										
2 ENG 1-12 SEATS	1254224	950171	148301	34380	754	0	101012	2584	3505	18840
EST-TOT.HOURS	4.6	6.0	24.1	81.8	219.7	0.0	27.0	121.7	88.0	46.2
% STD. ERROR										

TABLE 2-4 GENERAL AVIATION TOTAL HOURS FLOWN BY AIRCRAFT TYPE AND PRIMARY USE - CY 1979
(2 of 3)

AIRCRAFT TYPE	TOTAL	EXECUTIVE	BUSINESS	PERSONAL	AERIAL APPL	INSTRUC- TIONAL	AIR TAXI	INDUS- TRIAL	RENTAL	OTHER
2 ENG 13+ SEATS EST. TOT. HOURS & STD. ERROR	572426 7.9	115387 14.1	17411 40.4	0 0.0	0 0.0	5081 119.3	412895 12.6	4862 109.3	264 217.7	18273 74.8
TOTAL 2 ENG EST. TOT. HOURS & STD. ERROR	1824650 4.0	1062925 5.6	166054 22.4	34380 81.8	754 219.7	5081 119.3	491473 14.2	7123 81.6	3765 84.3	37486 40.9
OTHER TURBOPROP EST. TOT. HOURS & STD. ERROR	44665 5.0	2407 26.4	3898 26.8	260 37.1	19701 3.8	0 0.0	4146 7.3	0 0.0	3328 40.4	8710 16.3
TOTAL TURBOPROP EST. TOT. HOURS & STD. ERROR	1871315 3.9	1065346 5.6	169946 21.9	36720 78.1	20540 16.4	5081 119.3	496259 13.9	7123 81.6	6864 68.1	46324 33.4
TURBOJET 2 ENG EST. TOT. HOURS & STD. ERROR	1124694 3.4	869421 4.4	42087 37.9	0 0.0	0 0.0	23770 53.2	135278 19.9	341 261.3	0 0.0	57350 28.1
OTHER EST. TOT. HOURS & STD. ERROR	134200 7.0	68793 11.2	19454 21.3	247 55.5	0 0.0	8846 43.7	2621 33.6	0 0.0	24051 12.9	10034 13.3
TOTAL TURBOJET EST. TOT. HOURS & STD. ERROR	1258895 3.2	937487 4.1	61710 27.4	247 55.5	0 0.0	30518 48.6	137719 19.4	341 261.3	24051 12.9	67359 18.1
TOTAL FIXED WING EST. TOT. HOURS & STD. ERROR	4042246 1.5	4695425 4.8	8698740 3.3	9243445 2.9	2057799 4.8	6349277 6.6	3948388 6.8	914386 15.2	4135252 6.7	760245 10.9
ROTORCRAFT PISTON EST. TOT. HOURS & STD. ERROR	891937 10.9	94100 42.0	90026 37.6	30226 24.1	280626 21.0	52991 32.3	34062 40.1	174750 23.9	2288 48.5	128831 30.0
TURBINE EST. TOT. HOURS & STD. ERROR	1663650 6.5	206342 23.4	149551 30.3	11778 77.6	33380 49.5	5723 76.8	1000955 12.0	132901 22.0	4833 55.2	122611 29.8

TABLE 2-4 GENERAL AVIATION TOTAL HOURS FLOWN BY AIRCRAFT TYPE AND PRIMARY USE - CY 1979
(3 of 3)

AIRCRAFT TYPE	TOTAL	EXECUTIVE	BUSINESS	PERSONAL	AERIAL APPL	INSTRUC- TIONAL	AIR TAXI	INDUS- TRIAL	RENTAL	OTHER
TOTAL ROTORCRAFT	2955187	301686	234111	41794	313948	58740	1032993	303894	7121	240541
EST. TOT. HOURS	5.7	20.0	23.2	20.0	19.5	24.5	11.7	17.5	61.1	21.1
% STD. ERROR										
OTHER	352644	2407	52553	173420	2898	40554	133	81	45513	2328
EST. TOT. HOURS	8.2	36.9	27.0	6.8	93.4	23.2	109.4	196.9	22.0	20.8
% STD. ERROR										
TOTAL AIRCRAFT	43340081	5000539	8979461	9470924	2372188	6461051	4372425	1119583	4206267	1051744
EST. TOT. HOURS	1.4	1.3	1.4	12.5	6.3	5.1	5.8	6.1	5.5	6.4
% STD. ERROR										

NOTE : ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP - CY 1979 (1 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
OTHER 01	9540	256060	34795	13.6	54.2	6.7	12.3
OTHER 02	617	30563	5210	17.2	120.2	17.3	14.4
OTHER 03	340	57817	16282	28.2	236.4	53.7	22.7
OTHER 04	141	15886	3269	20.6	282.4	44.2	15.6
OTHER 05	68	3349	562	16.8	111.7	14.8	13.2
OTHER 06	37	4512	877	19.4	135.5	24.8	18.3
OTHER 07	206	176749	41083	22.9	939.8	205.8	21.9
OTHER 08	77	17618	2034	11.7	371.3	35.4	9.5
OTHER 09	312	155775	24725	15.9	535.0	78.3	14.6
OTHER 10	173	16463	2923	17.8	185.7	31.6	17.0
OTHER 11	1637	48315	10925	27.0	81.6	20.5	25.2
OTHER 12	198	95440	20891	21.9	567.2	116.4	20.5
OTHER 13	1662	55660	7920	14.2	47.3	5.9	12.6
ADAMS A505	32	1921	355	18.5	60.0	11.1	18.5
AEROSPASIA	105	44555	10735	24.1	527.4	100.3	19.0
AEROSPASIA	69	24906	2139	8.6	361.0	31.0	8.6
ACUSTA205	65	48329	11475	23.7	986.4	78.1	7.9
AIRPTA	296	34271	7847	22.9	177.5	30.5	17.2
AIRSPC18	24	159	61	38.2	12.4	3.7	29.5
AIRYACAT300	195	97774	16094	16.5	501.4	82.5	16.5
AWO FALC10	101	42044	6991	16.6	416.5	69.2	16.6

Note: See following page for coding.

NOTE: Other XX refers to all general aviation aircraft belonging to manufacturer/model groups of fewer than 20 aircraft in size for aircraft XX where XX stands for

- 01 Fixed wing piston, 1 engine, 1-3 seats.
- 02 Fixed wing piston, 1 engine, 4+ seats.
- 03 Fixed wing piston, 2 engines, 1-6 seats.
- 04 Fixed wing piston, 2 engines, 7+ seats.
- 05 Fixed wing piston, other.
- 06 Fixed wing turboprop, 2 engines, 1-12 seats.
- 07 Fixed wing turboprop, 2 engines, 13+ seats.
- 08 Fixed wing turboprop, other.
- 09 Fixed wing turbojet, 2 engines.
- 10 Fixed wing turbojet, other.
- 11 Rotorcraft, piston.
- 12 Rotorcraft, turbine.
- 13 Other aircraft.

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP - CY
1975 (2 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
AMD FALC20	196	93966	9770	10.2	492.2	49.4	10.0
ARCRNEX37	45	138	0	0.0	3.0	0.0	0.0
ARCTICS14	94	1654	670	40.5	59.9	20.6	34.4
ARCTICS181	26	543	113	20.9	48.0	7.9	16.6
ARONCA15	211	11464	2067	18.0	93.5	16.4	17.6
ARONCA65	158	3860	919	23.8	51.0	9.1	17.8
ARONCAC3	53	26	15	57.4	3.5	0.5	15.6
ARONCA058	166	7314	1994	27.3	62.8	14.1	22.5
AYRES S2	947	40488	28612	7.1	476.8	30.2	6.3
BAC 111	28	20476	2799	13.7	731.3	100.0	13.7
BAC B206	35	6500	1505	23.1	192.8	35.6	18.5
BAC DH125	34	19106	1955	10.2	562.0	57.5	10.2
BAC HP137	26	23763	6872	28.9	1709.8	112.8	6.6
3ALWKS FIREFY	506	25728	2973	11.5	51.2	5.9	11.5
BEECH 100	222	78274	9499	12.1	352.6	42.8	12.1
BEECH 17	197	5513	2137	38.8	69.0	19.9	28.9
BEECH 18	1149	307905	35335	11.5	411.7	38.2	9.3
BEECH 200	392	199779	15877	7.9	513.7	39.7	7.7
BEECH 23	2841	459087	54669	11.9	179.8	20.5	11.4
BEECH 33	1592	285612	25652	9.0	182.7	16.1	8.8
BEECH 35	7157	1021080	83509	8.2	148.8	12.0	8.1

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP - CY
1979 (3 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
BEECH 36	1265	271387	28597	10.5	221.2	22.7	10.3
BEECH 45	329	41329	4218	10.2	140.8	13.2	9.4
BEECH 50	376	67130	15194	22.6	197.5	43.5	22.0
BEECH 55	2181	453024	47377	10.5	212.2	21.9	10.3
BEECH 56	68	9004	1496	16.6	134.7	22.0	16.4
BEECH 58	1003	275697	42107	15.3	274.9	42.0	15.3
BEECH 60	364	76243	9129	12.0	214.8	24.7	11.5
BEECH 65	172	30710	3378	12.6	188.9	22.8	12.1
BEECH 76	141	37481	5895	15.7	156.2	30.9	15.7
BEECH 77	47	6300	1181	19.7	127.7	25.1	19.7
BEECH 80	227	65847	12372	19.1	311.0	54.4	18.1
BEECH 90	865	377842	43758	11.6	437.4	50.6	11.6
BEECH 95	505	78841	14216	18.0	176.9	29.8	16.8
BEECH 99	90	184708	13823	7.5	2078.4	141.4	6.8
BELL 204	145	17420	6585	37.8	177.1	63.7	36.0
BELL 206	1443	1952647	98669	9.4	732.6	66.4	9.1
BELL 212	108	99683	17948	18.0	946.0	158.6	16.8
BELL 47	1409	522553	83189	16.9	420.6	64.0	15.2
BLANCA11	595	34994	8839	25.3	47.0	10.9	23.1
BLANCA1413	310	9291	5039	54.2	60.2	29.4	48.8
BLANCA1419	313	21015	5624	21.8	81.7	19.5	23.9

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP - CY
1979 (4 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
BLANCA17	1082	183.5	60476	32.0	183.5	58.1	31.6
BLANCA7	6165	417499	26985	6.5	93.5	5.7	6.1
BLANCA8	679	83080	16216	19.5	129.2	24.3	18.8
BNORM BN2	92	57746	15164	26.3	1035.1	151.8	14.7
BOEING707	51	8208	3664	44.6	217.5	94.7	43.5
BOEING727	27	27337	4415	16.2	1082.3	160.6	14.8
BOEING75	2080	134090	23011	17.2	128.2	18.8	14.7
BOEING817	22	1558	354	22.7	91.6	17.5	19.1
BOLKNS105	65	18951	6555	34.6	455.0	82.9	18.2
BRAEDHL25	96	35646	2736	7.7	375.2	28.8	7.7
BRASOV1528	50	4334	559	12.9	99.3	11.7	11.8
BRWSTFLEET2	30	411	76	18.4	34.7	4.5	13.0
BRWSTFLEET7	22	207	15	7.2	26.0	0.9	3.5
CARRONMODELO	80	6227	1129	18.1	80.3	11.0	17.5
CESSNA120	940	36559	6812	18.6	46.1	8.0	17.3
CESSNA110	2567	135460	24530	18.1	69.4	11.7	16.9
CESSNA150	19631	4624009	314804	6.8	255.5	17.0	6.6
CESSNA170	2644	157206	20024	12.7	75.0	9.0	12.0
CESSNA172	23306	4216057	242146	5.7	188.2	10.7	5.7
CESSNA175	1458	81890	4923	6.5	62.0	5.0	8.1
CESSNA177	3084	636634	87321	13.7	211.8	28.9	13.6

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP - CY
1979 (5 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
CESSNA180	2795	420002	70056	16.7	150.4	26.1	16.5
CESSNA182	13120	2173800	126793	5.8	170.0	9.8	5.7
CESSNA185	1414	234604	36381	15.5	173.9	26.2	15.0
CESSNA188	1902	457553	45335	10.0	268.9	23.5	8.7
CESSNA190	89	5055	1249	24.6	01.6	20.0	23.6
CESSNA195	537	27996	6344	23.1	79.0	17.3	21.8
CESSNA206	2787	774999	94152	12.1	267.3	34.9	11.7
CESSNA207	323	125165	27592	22.0	117.3	86.6	20.8
CESSNA210	5758	1067697	74353	7.0	191.6	13.0	6.8
CESSNA209	248	22709	4962	21.9	135.5	21.8	16.0
CESSNA310	3341	657354	60487	9.2	209.0	18.4	8.8
CESSNA320	369	70491	8825	12.5	191.9	23.9	12.5
CESSNA336	102	9070	2512	27.7	112.1	30.4	27.1
CESSNA337	1250	299388	42502	14.2	230.2	31.8	13.8
CESSNA340	762	252769	25383	10.0	331.7	33.3	10.0
CESSNA401	258	60274	10616	17.6	250.8	40.5	16.2
CESSNA402	610	261064	41774	16.0	503.9	73.1	14.5
CESSNA404	94	63125	9605	15.2	705.5	93.8	13.3
CESSNA411	201	35299	3362	9.5	192.8	16.3	8.5
CESSNA414	602	146282	17648	11.9	246.7	29.3	11.9
CESSNA421	1143	351498	38504	10.9	315.2	33.7	10.7

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP - CY
1979 (6 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE CF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
CESSNA441	74	14849	1966	13.2	231.6	25.0	10.8
CESSNA500	294	138628	8202	5.9	471.5	27.9	5.9
CESSNA750	85	685	118	17.2	33.7	3.3	9.7
CESSNAUC77	22	506	104	20.4	63.5	6.5	10.2
CESSNAUC94	36	703	109	15.5	51.1	6.2	12.2
CHILLO S2	122	15282	4233	27.7	141.0	37.1	26.3
COMANTH185	104	1229	566	46.1	44.1	10.2	23.1
CONAERLA4	463	34666	9698	28.0	105.3	25.6	24.3
CURTIS46	55	2400	3114	129.8	273.4	112.2	41.0
CURTISJR	21	91	36	40.0	37.0	4.5	12.1
CURTISROMIN	35	186	45	23.9	28.0	5.2	18.6
CURTISRYAIA	183	4317	1290	29.9	128.2	30.4	23.7
CVAC 22	43	7649	971	12.7	466.2	57.4	8.6
CVAC 240	60	2272	599	26.4	98.4	19.3	19.7
CVAC 340	26	6382	1838	28.8	352.6	70.4	20.0
CVAC 440	24	449	1095	243.7	350.0	0.0	0.0
CVA. 8713	191	1661	445	26.8	44.7	8.8	19.6
CVAC L13	23	97	76	78.8	87.0	0.0	0.0
CVAC STC500	37	20214	5310	26.3	580.7	143.4	24.7
DAAT G	24	523	102	19.4	47.0	8.1	17.3
DHAV DMC1	93	3025	798	26.9	54.3	8.6	15.9

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP - CY 1979 (7 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
DH4V DMC2	365	109149	17459	16.6	485.4	61.5	12.7
DH4V DMC3	22	6043	1374	22.7	446.9	46.6	10.4
DH4VXDM2	102	1861	521	28.0	40.0	7.8	19.4
DOUG A24	68	2316	1236	53.4	113.8	49.1	43.1
DOUG DC3	482	72647	17984	24.8	249.4	56.7	21.9
DOUG DC4	84	11497	3185	27.7	294.1	71.9	24.4
DOUG DC6	121	4339	7883	19.1	595.8	97.2	16.3
DOUG DC7	48	21126	11128	52.7	648.5	321.8	49.6
DOUG DC8	53	14714	1941	13.2	426.5	47.9	11.2
DOUG DC9	9	5115	1171	22.9	568.4	130.1	22.9
FAIRCHILD	97	6726	1166	17.3	72.6	12.0	16.5
FAIRCHILD	28	6320	1746	27.6	506.6	74.0	14.6
FAIRCHILD	412	80881	12796	15.8	260.3	31.6	14.8
FLEET 168	27	437	51	11.7	30.0	2.2	7.4
FAIRCHILD	318	1679	715	42.6	23.8	5.1	21.5
FAIRCHILD	27	2222	824	37.1	128.2	30.4	23.7
FAIRCHILD	35	11236	2652	23.6	426.0	78.0	18.3
FAIRCHILD	80	18824	1946	10.3	262.2	24.6	9.4
FAIRCHILD	243	8328	1932	23.2	60.2	9.9	16.5
GENBALAX6	28	1917	294	15.3	68.5	10.5	15.3
GLASFELL	165	7911	1820	23.0	50.7	11.2	22.1

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP - CY 1979 (8 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
GRUB ASFIR	90	3544	520	14.7	70.9	10.4	14.7
GRYLS271	175	15433	2915	18.9	109.9	20.0	18.2
GRJMAN784	37	446	295	66.1	51.4	5.1	10.0
GRUNAV441	652	229690	5198	22.5	355.2	80.2	22.3
GRJNAV445	1065	235025	31632	13.5	225.8	29.9	13.3
GRUNAVG164	626	275173	38301	13.9	477.7	59.2	12.4
GULSTMA41	666	55693	8567	15.4	86.3	12.9	15.0
GULSTMA45	956	222295	32589	14.7	243.6	34.7	14.2
GULSTMG1159	142	83796	7984	9.5	590.1	56.2	9.5
GULSTMG159	144	79129	9653	12.2	563.9	64.3	11.4
GULSTMG164	964	378972	42888	11.3	444.8	43.7	5.8
GULSTMG21	44	6549	2366	36.1	563.2	101.3	18.0
GULSTMG44	90	15744	4469	28.4	187.0	50.0	26.7
GULSTMG73	28	5690	2659	46.7	486.3	71.6	14.7
GULSTMG47	66	18654	2411	12.9	282.6	36.5	12.9
MELTD H250	22	2277	387	17.0	115.2	18.4	16.0
MELTD H295	113	20165	3152	15.6	135.8	33.5	14.2
MELTD H391	27	1143	351	30.7	133.0	26.2	19.7
MELTD H395	24	4462	882	19.8	229.7	38.5	16.8
MTLLERUH12	691	99294	23172	23.3	246.5	46.0	18.7
HUGHES269	465	138580	30153	21.8	284.0	55.6	19.6

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP - CY 1979 (9 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
HUGHES369	454	191566	29162	15.2	429.2	64.3	15.0
MMKSLYDH104	44	3190	1324	41.5	336.2	63.8	19.0
MMKSLYDH114	46	72943	4059	5.6	1772.6	77.0	4.3
MMKSLYDH125	37	14555	1605	11.0	393.4	43.4	11.0
HYMES B2	140	7267	910	12.6	92.0	10.0	11.7
ISAHEL1121	120	24404	6202	25.4	250.3	54.3	21.7
ISAHEL1124	68	31797	2593	8.2	467.6	38.1	8.2
JDMSTRDGA15	83	4721	3036	64.3	94.6	54.1	57.2
KMLLUNO	288	9546	2918	30.6	57.4	13.0	22.4
LAIKPH10	46	221	50	22.5	22.2	3.4	15.4
LEAR 23	70	31741	4409	13.9	433.4	62.9	13.9
LEAR 24	198	97473	12918	13.2	508.4	65.0	13.0
LEAR 25	202	100394	14710	14.7	550.5	64.5	11.7
LEAR 35	188	95755	6152	6.4	509.3	32.7	6.4
LET L13	184	13777	2527	18.3	90.4	15.1	16.7
LKHEED12A	24	1776	1757	99.0	116.9	113.7	97.3
LKHEED1329	146	59829	6479	10.8	409.8	44.4	10.8
LKHEED18	89	7424	1843	24.8	162.1	34.6	21.3
LKHEEDPVL	62	7656	4415	40.3	204.3	116.4	57.0
LKHEEDT33	58	0	0	0.0	0.0	0.0	0.0
LUSCON8	2365	120740	28042	23.2	63.4	18.1	21.7

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP - CY
1979 (10 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
MARTIN 404	25	4295	1281	29.8	200.7	30.8	15.4
MAULE M4	284	17863	3975	22.3	70.7	15.0	21.2
MAULE M5	387	50282	5724	11.4	131.2	14.8	11.3
MC-UL M2	40	293	92	31.5	24.3	4.9	20.2
MC-119 M10	140	2263	1203	53.1	36.5	16.8	46.1
MEYERSON	52	968	239	24.7	30.9	6.5	21.1
MICRO P90	75	828	298	36.0	38.9	11.7	30.0
MILITARY 10	157	2291	1182	51.6	33.0	14.2	43.0
MOORE V20	5532	87747	6460	7.8	162.5	12.5	7.7
MORRIS 205	51	3458	543	15.7	78.3	11.6	14.8
MUSKIE 102	434	172598	15836	9.2	397.7	36.5	9.2
MULTICO 16	51	2799	1523	54.4	118.8	59.8	50.3
NAMER 825	55	646	320	49.5	33.1	14.2	43.0
NAMER F51	149	2943	1170	39.7	51.7	10.7	20.8
NAMER M2 60	65	1858	511	27.5	77.3	11.7	15.1
NAMER T6	476	29745	6417	21.6	75.3	14.3	19.0
NAVAL M34	163	7655	824	10.8	151.4	13.0	8.6
NAVION NAVION	1325	82286	16476	20.3	84.9	15.9	18.7
NORD SV4	52	838	452	53.9	35.2	14.1	40.1
ORLWELHI 9	61	2436	3397	141.2	429.1	107.3	25.0
PICARD 6	171	5560	821	14.8	36.7	5.0	13.5

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP - CY 1979 (11 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
PILATUS 64	28	2361	330	14.0	103.7	12.3	11.9
PIPER 600	232	69011	11431	16.6	297.5	49.3	16.6
PIPER J2	68	592	290	49.0	41.8	10.0	23.9
PIPER J3	4424	185357	28998	15.6	73.0	9.9	13.6
PIPER J4	252	17803	11275	63.3	284.8	143.8	50.5
PIPER J5	372	11642	2437	20.9	69.8	13.9	19.9
PIPER PA12	1409	87417	18582	21.3	99.1	19.9	20.1
PIPER PA14	109	6667	1327	19.9	93.4	14.5	15.6
PIPER PA15	207	4659	1819	39.0	44.7	14.2	31.7
PIPER PA16	407	16163	2880	17.8	52.9	7.4	13.9
PIPER PA17	121	3741	1207	32.3	53.4	13.8	25.9
PIPER PA18	3510	433157	83817	19.4	169.6	30.3	17.9
PIPER PA20	498	38880	11417	31.0	91.9	26.8	29.2
PIPER PA22	5384	296827	71109	24.0	85.2	20.0	23.5
PIPER PA23	3821	861851	83543	9.7	248.2	22.9	9.2
PIPER PA24	3413	367580	35001	9.5	114.5	10.5	9.2
PIPER PA25	1753	344663	49438	14.3	252.9	32.2	12.8
PIPER PA28	21691	4620812	238077	5.2	220.5	11.3	5.1
PIPER PA30	1336	227267	24313	10.7	173.7	18.3	10.5
PIPER PA31	1687	958589	113680	11.9	571.9	67.0	11.7
PIPER PA317	296	119918	17481	14.6	405.1	59.1	14.6

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP - CY 1979 (12 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
PIPER PA32	3654	863655	74670	8.6	226.5	19.4	8.6
PIPER PA34	1742	485059	44046	9.1	278.3	25.4	9.1
PIPER PA36	359	84598	13237	15.6	308.0	37.8	12.3
PIPER PA38	1244	487637	45775	9.4	406.5	36.7	9.0
PIPER PA44	217	53974	8272	15.3	271.4	38.1	14.0
PRATT PAG1	22	76	47	61.3	15.0	1.7	11.1
PROPJ7200	103	9293	10435	112.3	109.5	122.1	111.5
RANKINS	58	1801	296	26.9	54.6	9.2	16.9
RAVEN RK6	220	8428	1360	16.1	40.7	6.4	15.6
RAVEN S50	116	2761	1315	47.6	28.9	13.4	46.3
RAVEN S51	385	31164	6743	21.6	89.6	18.3	20.4
RAVEN S60	27	1469	260	17.7	54.9	9.8	17.1
REIMS 150	22	7970	0	0.0	260.8	0.0	0.0
RWELL112	768	183443	33896	18.5	247.0	45.0	18.2
RWELL500	385	171742	33511	19.5	447.5	87.1	19.5
RWELL520	66	3836	702	18.3	91.8	14.6	15.9
RWELL560	147	17146	5175	30.2	137.7	38.5	28.0
RWELL680	413	53024	9924	18.7	103.2	26.6	14.5
RWELL680TP	129	42780	3495	8.6	347.7	28.9	8.3
RWELL690TP	304	142303	17824	14.5	468.1	96.4	12.5
RWELL700	23	5207	866	16.6	226.4	37.6	16.6

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP - CY 1979 (13 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
ARNOLD M265	209	132004	9911	7.5	466.6	31.9	6.8
ROLSCHLS	79	5366	208	3.9	70.0	2.6	3.7
RYAN ST3	170	2566	874	34.1	32.0	6.3	19.8
RYAN STA	35	181	42	22.9	25.5	3.0	11.4
SCHLERAS19	39	2777	679	24.4	75.5	18.2	24.1
SCHLERASW19	47	3257	445	13.7	70.8	9.5	13.4
SCHLERASW20	37	2540	420	16.5	70.8	11.5	16.3
SCHLERK8	26	927	317	34.2	63.7	16.4	25.8
SCHLERKAB	81	2790	174	6.2	42.2	2.4	5.7
SCHWERSG1	776	31391	6676	21.3	49.7	9.6	19.2
SCHWERSG2	629	103711	25732	24.8	223.5	50.1	22.4
SCHWERTG3A	23	689	283	41.1	143.8	40.8	28.4
SEMO CLINGER	32	729	90	12.3	24.1	2.5	8.6
SEMO MODEL7	38	2493	1120	44.9	103.8	44.11	43.1
SKRSHV55	90	9322	2336	25.1	164.0	33.4	20.4
SKRSHV58	66	9173	2897	31.6	174.8	49.9	28.4
SKRSHV587	23	5260	987	18.8	338.3	43.3	12.8
SLINDS100	370	39327	9835	25.0	110.3	27.3	24.8
SMITH 60C	197	51434	6008	11.7	267.1	30.4	11.4
SNIAS 390	56	26016	4822	18.5	481.3	78.2	16.2
SNIAS SA318	38	910	806	88.6	52.8	33.3	63.0

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP - CY 1979 (14 of 15)

MANUFACTURER/MOIAL GROUP	GROUP SIZE	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
SOCATAMS094	42	2717	661	24.3	84.3	12.9	15.2
SOCATARALLYE	44	4930	1061	21.4	111.0	24.7	22.2
SPHRYMCIRUS	110	9570	1153	12.0	96.5	11.2	11.6
SPHRTWNIHUS	38	4732	284	6.0	128.4	7.3	5.7
STNSOMIO	106	1791	885	49.4	26.4	11.8	44.6
STNSONLS	148	2790	498	16.4	57.6	6.6	11.5
STNSOMSR9	28	187	55	29.3	33.0	6.0	18.2
STOLAMRC3	257	2803	974	33.6	46.7	10.4	22.3
SUPAC LA	107	743	219	29.5	41.7	8.1	19.4
SUPAC V	27	506	126	25.0	42.5	8.4	19.8
SWMHNSA226	145	12843	5525	4.6	980.0	34.5	3.8
SWMHNSA26	107	45281	10310	22.8	443.2	98.1	22.1
TCCRAFTA	33	165	55	33.1	21.5	2.2	10.3
TCCRAFTBC	1947	38353	7495	19.0	44.6	7.4	16.5
TCCRAFTBF	45	779	150	19.3	44.2	5.7	12.9
TCCRAFTBL	242	6406	1814	25.2	48.0	8.0	16.7
TENGO 114	34	1087	149	13.7	47.8	5.4	11.4
THUNORAX7	32	1836	112	6.1	59.3	3.5	5.9
TRYTERK	33	13'	64	47.2	29.3	5.6	19.1
UNIVACGC1	716	27' 6	3553	13.1	65.2	6.3	9.7
UNIVARIQ8	2286	71'	4596	5.9	56.4	3.0	5.4

TABLE 2-5 GENERAL AVIATION ANNUAL HOURS BY SDP AIRCRAFT MANUFACTURER/MODEL GROUP - CY 1979 (15 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF TOTAL HOURS	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF MEAN HOURS	STANDARD ERROR	PERCENT STANDARD ERROR
UNIVAR415	2608	111181	15594	14.0	60.1	7.2	12.0
VAAGA 2150	35	996	182	18.2	29.3	5.3	17.9
WACO 450	30	236	90	26.7	37.3	7.1	19.0
WACO 44E	34	1343	504	37.5	141.7	47.9	33.8
WACO R	35	368	124	34.3	29.2	5.6	19.3
WACO U	32	300	81	27.0	32.6	5.8	17.9
WACO UPF7	163	5567	681	12.2	71.7	8.3	11.6
WACO YK	98	898	270	30.1	89.5	20.8	23.2
W3DHM65	373	7985	823	10.3	56.7	5.2	9.2
WTHMLV201	76	28083	4923	17.5	422.5	64.6	15.3
TOTAL	268070	43340081	627411	1.4	203.5	2.9	1.44

TABLE 2-6 GENERAL AVIATION ACTIVE AIRCRAFT BY TYPE OF AIRCRAFT - CY 1979 (1 of 2)

AIRCRAFT TYPE	POPULATION SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
FIXED WING PISTON						
1 ENG 1-3 SEATS	83970	62362	594	1.0	74.3	0.7
1 ENG 4+ SEATS	115507	106028	450	0.4	51.8	0.4
TOTAL 1 ENG	199477	168390	745	0.4	84.1	0.4
2 ENG 1-6 SEATS	18071	16891	157	0.9	53.5	0.5
2 ENG 7+ SEATS	9271	7958	90	1.1	85.8	1.0
TOTAL 2 ENG	27342	24850	191	0.7	90.9	0.7
OTHER PISTON	389	229	11	4.8	58.9	2.8
TOTAL PISTON	227208	193470	767	0.4	85.2	0.3
TURBOPROP						
2 ENG 1-12 SEATS	2986	2944	13	0.5	98.8	0.5
2 ENG 13+ SEATS	584	538	15	2.9	52.1	2.7
TOTAL 2 ENG	3570	3482	20	0.6	97.6	0.6
OTHER TURBOPROP	132	96	3	3.4	73.4	2.5
TOTAL TURBOPROP	3702	3579	21	0.6	96.7	0.6
TURBOJET						
2 ENG	2383	2309	29	1.3	96.9	1.2
OTHER	551	343	6	1.9	62.4	1.2
TOTAL TURBOJET	2934	2653	30	1.1	90.4	1.0
TOTAL FIXED WING	238444	199703	768	0.4	85.4	0.3
ROTORCRAFT PISTON	5346	3123	127	4.1	58.4	2.4

TABLE 2-6 GENERAL AVIATION ACTIVE AIRCRAFT BY TYPE OF AIRCRAFT - CY 1979 (2 of 2)

AIRCRAFT TYPE	POPULATION SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
TURBINE	3024	2740	50	1.8	50.6	1.7
TOTAL ROTORCRAFT	8370	5864	136	2.3	70.1	1.6
OTHER	5856	4770	114	2.4	81.5	1.9
TOTAL AIRCRAFT	248070	210339	789	0.4	84.8	0.3

TABLE 2-7 GENERAL AVIATION ACTIVE AIRCRAFT BY STATE OF BASED AIRCRAFT - CY 1979 (1 of 3)

STATE	ESTIMATE OF POPULATION	STANDARD ERROR	ESTIMATE OF ACTIVE POPULATION	STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
ALABAMA	2904	299	2561	290	88.2	13.5
ALASKA	6898	413	5842	392	84.7	7.6
ARIZONA	5388	410	4525	391	84.0	5.7
ARKANSAS	3101	307	2644	290	85.5	12.7
CALIFORNIA	33177	957	27980	908	84.3	3.7
COLORADO	5165	409	4560	369	88.3	10.3
CONNECTICUT	1910	248	1670	237	87.4	14.8
DELAWARE	862	161	710	148	82.4	23.1
DC	97	48	62	35	64.0	48.1
FLORIDA	12859	629	10862	590	82.5	6.1
GEORGIA	4790	389	4121	371	86.0	10.4
HAWAII	640	136	530	130	82.7	27.1
IDaho	2721	292	2112	265	77.6	12.8
ILLINOIS	9707	533	8153	520	84.0	7.2
INDIANA	5274	417	4569	397	86.6	10.2
IOWA	4035	365	3545	349	87.8	11.8
KANSAS	4695	394	3848	364	82.0	10.4
KENTUCKY	1675	231	1534	226	91.6	18.5
LOUISIANA	4143	349	3526	325	85.1	10.6
MAINE	1259	199	1077	191	85.6	20.4
MARYLAND	2876	311	2492	294	86.7	13.9

TABLE 2-7 GENERAL AVIATION ACTIVE AIRCRAFT BY STATE OF BASED AIRCRAFT - CY 1979 (2 of 3)

STATE	ESTIMATE OF POPULATION	STANDARD ERROR	ESTIMATE OF ACTIVE POPULATION	STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
MASSACHUSETTS	3180	329	2787	315	87.6	13.5
MICHIGAN	8515	528	7279	499	85.5	7.9
MINNESOTA	6050	435	4772	398	78.5	8.7
MISSISSIPPI	2987	291	2337	281	50.3	14.9
MISSOURI	5024	404	4142	375	82.5	10.0
MONTANA	2615	303	2447	298	93.6	15.7
NEBRASKA	2914	312	2569	299	88.2	14.0
NEVADA	2017	248	1827	241	90.6	16.4
NEW HAMPSHIRE	1293	198	1016	178	78.6	18.3
NEW JERSEY	4365	378	3962	369	90.8	11.6
NEW MEXICO	2477	279	2217	270	85.5	14.9
NEW YORK	7478	485	6168	454	82.5	8.1
NORTH CAROLINA	4849	400	4017	371	82.8	10.3
NORTH DAKOTA	1739	240	1482	228	85.2	17.6
OHIO	8965	534	7687	508	85.7	7.6
OKLAHOMA	5124	410	4558	394	85.0	10.5
OREGON	6901	468	5729	436	83.0	8.5
PENNSYLVANIA	7143	468	5907	438	82.7	8.2
RHODE ISLAND	473	125	413	120	87.4	34.4
SOUTH CAROLINA	1973	252	1667	238	84.5	16.2
SOUTH DAKOTA	1692	235	1495	225	88.3	18.2
TENNESSEE	2943	305	2498	287	84.9	13.2
TEXAS	20046	769	17519	735	87.4	5.0
UTAH	1802	245	1623	238	90.1	18.0
VERMONT	497	126	442	121	88.5	33.1
VIRGINIA	3193	328	2756	305	86.3	13.2

TABLE 2-7 GENERAL AVIATION ACTIVE AIRCRAFT BY STATE OF BASED AIRCRAFT - CY 1979 (3 of 3)

STATE	ESTIMATE OF POPULATION	STANDARD ERROR	ESTIMATE OF ACTIVE POPULATION	STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
WASHINGTON	7829	495	6578	468	84.0	8.0
WEST VIRGINIA	1338	216	1156	204	86.4	20.7
WISCONSIN	5111	401	4100	368	80.2	9.6
WYOMING	1338	212	1197	203	89.4	26.8
PUERTO RICO	528	125	438	117	83.1	29.7
OTHER U.S. TERRITORIES	287	103	237	99	82.5	45.4
FOREIGN	1447	206	954	165	65.9	14.8
TOTAL	248070		210339	789	84.8	0.3

NOTE : COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

TABLE 2-8 GENERAL AVIATION ACTIVE AIRCRAFT BY REGION OF BASED AIRCRAFT - CY 1979

REGION	ESTIMATE OF POPULATION	STANDARD ERROR	ESTIMATE OF ACTIVE POPULATION	STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
ALASKAN	6898	413	5842	392	84.7	7.6
CENTRAL	16670	722	14106	679	84.6	5.5
EASTERN	27355	890	23217	843	84.9	4.1
EUROPEAN	388	90	305	84	78.5	28.5
GREAT LAKES	43624	1084	36563	1029	83.8	3.1
NEW ENGLAND	8614	522	7407	496	86.0	7.8
NORTHWESTERN	17648	728	14472	679	82.0	5.1
PACIFIC	825	161	692	153	83.9	24.8
ROCKY MOUNTAIN	14352	671	12505	646	89.2	6.1
SOUTHERN	35662	993	30193	943	84.7	3.5
SOUTHWESTERN	35311	980	30806	938	87.2	3.6
WESTERN	40504	1038	34333	989	84.6	3.3
TOTAL	248070		210339	789	84.8	0.3

NOTE : COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES

TABLE 2-9 GENERAL AVIATION AIRCRAFT BY TYPE OF AIRCRAFT AND PRIMARY USE - CY 1979
(1 of 4)

TOTAL ACTIVE				ACTIVE USES					INACTIVE				
				EXEC- UTIVE	BUSI- NESS	PERSONL	AERIAL APPL	INSTR	AIR TAXI	INDUS- TRIAL	REN- TAL	OTHER	
FIXED WING PISTON	1-3 SEATS	EST. NO.	62362	761	4575	35953	6132	8846	129	928	3360	1674	21607 A
		STD. ERROR	594	B	A	A	A	A	D	C	B	B	
		EST % ACT.	74.3										
1 ENG	4+ SEATS	EST. NO.	104028	2665	33463	50994	268	5092	2418	1363	8367	1356	9478 A
		STD. ERROR	450	B	A	A	D	A	B	B	A	B	
		EST % ACT.	91.8										
TOTAL	1 ENG	EST. NO.	160390	3426	38038	86947	6401	13938	2547	2291	11727	3071	31086 A
		STD. ERROR	745	A	A	A	A	A	B	B	A	B	
		EST % ACT.	84.4										
2 ENG	1-6 SEATS	EST. NO.	16891	2672	7740	2813	31	798	1833	198	345	458	1179 B
		STD. ERROR	157	A	A	A	D	B	B	D	C	C	
		EST % ACT.	93.5										

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL TO		
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-9 GENERAL AVIATION AIRCRAFT BY TYPE OF AIRCRAFT AND PRIMARY USE - CY 1979
(2 of 4)

TOTAL ACTIVE			ACTIVE USES						INACTIVE	
	EXEC- UTIVE	BUSI- NESS	PERSHL	AERIAL APPL	INSTR	AIR TAXI	INDUS- TRIAL	REH- TAL	OTHER	
2 ENG 7+ SEATS	EST.NO. % STD.ERROR	2571 A	2255 A	627 B	121 C	67 D	1874 A	86 D	110 D	1312 A
	7950 90 EST % ACT.									
	85.8									
TOTAL 2 ENG	EST.NO. % STD.ERROR	5243 A	9996 A	3441 A	152 C	865 B	3708 A	285 C	455 C	2491 A
	181 90.9 EST % ACT.									
	90.9									
OTHER PISTON	EST.NO. % STD.ERROR	0 A	36 B	6 D	76 B	4 D	43 A	0 A	38 C	159 A
	229 11 EST % ACT.									
	98.9									
TOTAL PISTON	EST.NO. % STD.ERROR	8670 A	48071 A	90395 A	6630 A	14808 A	6299 A	2577 B	12222 A	33737 A
	193470 767 EST % ACT.									
	85.2									
TURBOPROP	EST.NO. % STD.ERROR	2158 A	404 B	56 D	2 D	0 A	237 C	6 D	15 D	41 C
2 ENG 1-12 SEATS	EST.NO. % STD.ERROR	190 B	27 D	0 A	0 A	3 D	242 B	7 D	1 D	42 U
	538 15 EST % ACT.									
	92.2									

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL TO		
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-9 GENERAL AVIATION AIRCRAFT BY TYPE OF AIRCRAFT AND PRIMARY USE - CY 1979
(3 of 4)

TOTAL ACTIVE			ACTIVE USES						INACTIVE	
	EXEC- UTIVE	BUSI- NESS	PERSONL	AERIAL APPL	INSTR	AIR TAXI	INDUS- TRIAL	REN- TAL	OTHER	
TOTAL 2 ENG										
EST. NO. ACT.	2349	431	56	2	3	480	14	20	124	84
STD. ERROR	A	B	D	D	D	B	D	D	C	C
EST % ACT.	97.6									
OTHER TURBOPROP										
EST. NO. ACT.	8	10	5	32	0	10	0	0	24	34
STD. ERROR	C	C	D	A	A	A	A	D	B	A
EST % ACT.	73.4									
TOTAL TURBOPROP										
EST. NO. ACT.	2357	442	62	34	3	490	14	20	148	118
STD. ERROR	A	B	D	B	D	B	D	D	C	B
EST % ACT.	96.7									
TURBOJET 2 ENG										
EST. NO. ACT.	1817	67	0	0	41	238	1	0	143	73
STD. ERROR	A	D	A	A	D	B	D	A	C	C
EST % ACT.	96.9									
OT4ER										
EST. NO. ACT.	162	27	5	0	4	7	0	46	90	207
STD. ERROR	A	B	C	A	D	D	A	A	B	A
EST % ACT.	62.4									
TOTAL TURBOJET										
EST. NO. ACT.	1930	94	5	0	45	245	1	46	233	280
STD. ERROR	A	C	C	A	D	B	D	A	B	B
EST % ACT.	90.4									

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL TO		
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-9 GENERAL AVIATION AIRCRAFT BY TYPE OF AIRCRAFT AND PRIMARY USE - CY 1979
(4 of 4)

		TOTAL ACTIVE				ACTIVE USES				INACTIVE		
		EXEC- UTIVE	BUSI- NESS	PERSNL	AERIAL APPL	INSTR	AIR TAXI	INDUS- TRIAL	REN- TAL	OTHER		
		EST. NO. STD. ERROR EST % ACT.	EST. NO. STD. ERROR EST % ACT.	EST. NO. STD. ERROR EST % ACT.	EST. NO. STD. ERROR EST % ACT.	EST. NO. STD. ERROR EST % ACT.	EST. NO. STD. ERROR EST % ACT.	EST. NO. STD. ERROR EST % ACT.	EST. NO. STD. ERROR EST % ACT.	EST. NO. STD. ERROR EST % ACT.	EST. NO. STD. ERROR EST % ACT.	EST. NO. STD. ERROR EST % ACT.
TOTAL FIXED WING		13008 768 5.9	48008 90423 A	6665 A	14857 A	7036 A	2592 B	12254 A	4177 A	34136 A		
ROTORCRAFT												
PISTON		3123 127 4.1	125 324 C	462 B	729 B	238 C	129 D	458 B	10 D	445 B		
TURBINE		2740 50 1.8	472 327 C	27 D	78 D	45 D	1228 A	205 C	20 D	331 C		
TOTAL ROTORCRAFT		5864 136 2.3	597 651 B	489 B	808 B	288 C	1350 A	663 B	30 D	774 B		
OTHER		4770 114 2.4	397 3274 A	20 D	309 C	4 C	2 D	446 B	282 C	1085 B		
TOTAL AIRCRAFT		21039 788 3.7	13638 474 3.4	94427 1200 1.3	7494 267 3.6	15436 698 4.5	8399 426 5.1	3259 326 1.0	12771 670 5.2	5236 368 7.0		

STANDARD ERROR		CODE
GREATER THAN	LESS THAN	
OR	EQUAL TO	
0 %	10 %	A
10 %	20 %	B
20 %	30 %	C
30 %		D

NOTE : ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

TABLE 2-10 GENERAL AVIATION ACTIVE AIRCRAFT IFR FLOWN AND TRANSPONDER EQUIPPED - CY
1979 (1 of 2)

AIRCRAFT TYPE	ESTIMATED NUMBER OF A/C FLOWN IFR	PERCENT STANDARD ERROR	ESTIMATED PERCENT OF ACTIVE A/C FLOWN IFR	ESTIMATED NUMBER OF A/C FLOWN IFR WITH TRANSPONDER	PERCENT STANDARD ERROR	ESTIMATED PERCENT OF IFR WITH TRANSPONDER
FIXED WING PISTON						
1 ENG 1-3 SEATS	5233	A	8.4	4441	A	84.5
1 ENG 4+ SEATS	51774	A	48.8	51254	A	99.0
TOTAL 1 ENG	57008	A	33.9	55696	A	97.7
2 ENG 1-6 SEATS	14697	A	87.0	14615	A	99.5
2 ENG 7+ SEATS	7803	A	98.0	7803	A	100.0
TOTAL 2 ENG	22500	A	90.5	22487	A	99.9
OTHER PISTON	199	A	87.0	199	A	100.0
TOTAL PISTON	79708	A	41.2	78392	A	98.3
TURBOPROP						
2 ENG 1-12 SEATS	2925	A	99.4	2925	A	100.0
2 ENG 13+ SEATS	567	A	100.0	565	A	99.7
TOTAL 2 ENG	3492	A	100.0	3492	A	100.0
OT-1FR TURBOPROP	66	A	68.7	65	A	97.8

STANDARD ERROR	CODE
GREATER THAN	
LESS THAN	
OR	
EQUAL TO	
0 %	A
10 %	
20 %	B
30 %	C
30 %	D

TABLE 2-10 GENERAL AVIATION ACTIVE AIRCRAFT IFR FLOWN AND TRANSPONDER EQUIPPED - CY
1979 (2 of 2)

AIRCRAFT TYPE	ESTIMATED NUMBER OF A/C FLOWN IFR	PERCENT STANDARD ERROR	ESTIMATED PERCENT OF ACTIVE A/C FLOWN IFR	ESTIMATED NUMBER OF FLOWN IFR WITH TRANSPONDER	PERCENT STANDARD ERROR	ESTIMATED PERCENT OF IFR WITH TRANSPONDER
TOTAL TURBOPROP	3559	A	99.4	3559	A	100.0
TURBOJET 2 ENG	2371	A	100.0	2363	A	99.6
OTHER	402	A	100.0	402	A	100.0
TOTAL TURBOJET	2774	A	100.0	2767	A	99.8
TOTAL FIXED WING	86042	A	43.1	84752	A	98.5
ROTORCRAFT PISTON	3	D	0.1	3	D	100.0
TURBINE	139	D	9.1	124	C	89.3
TOTAL ROTORCRAFT	142	D	2.4	127	C	89.5
OTHER	63	D	1.3	7	D	11.0
TOTAL AIRCRAFT	86248	A	41.0	84888	A	98.4

NOTE : COLUMN SUMMATIONS MAY DIFFER FROM PRINTED SUBTOTALS AND TOTALS DUE TO ESTIMATION PROCEDURES.

STANDARD ERROR	CODE
GREATER THAN	-----
LESS THAN	-----
OR	-----
EQUAL TO	-----
0 %	A
10 %	B
20 %	C
30 %	D

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
CY 1979 (1 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
OTHER 01	9540	4121	274	5.8	49.5	2.9
OTHER 02	417	253	24	9.4	40.9	3.8
OTHER 03	360	245	41	16.7	47.9	11.3
OTHER 04	141	96	8	13.4	39.9	5.3
OTHER 05	68	30	3	10.3	44.1	4.5
OTHER 06	37	33	2	6.5	90.0	5.9
OTHER 07	206	191	13	6.5	92.8	6.1
OTHER 08	77	47	3	6.7	61.6	4.1
OTHER 09	312	291	18	6.1	93.3	5.7
OTHER 10	173	87	5	5.1	51.3	2.6
OTHER 11	1657	484	48	9.7	30.0	2.9
OTHER 12	198	168	13	7.6	85.0	6.5
OTHER 13	1662	1177	78	6.7	70.8	4.7
ADAMS A305	32	32	0	0.0	100.0	0.0
AEROSPA316	105	84	13	14.8	80.5	11.9
AEROSPA341	69	69	0	0.0	100.0	0.0
AGUSTA205	65	49	11	22.4	75.4	16.9
AIRPTSA	276	193	29	15.2	65.2	9.9
ALL SPCL8	24	13	3	24.2	53.4	12.9
AIRTRACAT900	195	195	0	0.0	100.0	0.0
AMD FALC10	101	101	0	0.0	100.0	0.0

Note: See following page for coding.

NOTE: Other XX refers to all general aviation aircraft belonging to manufacturer/model groups of fewer than 20 aircraft in size for aircraft XX where XX stands for

- 01 Fixed wing piston, 1 engine, 1-3 seats.
- 02 Fixed wing piston, 1 engine, 4+ seats.
- 03 Fixed wing piston, 2 engines, 1-6 seats.
- 04 Fixed wing piston, 2 engines, 7+ seats.
- 05 Fixed wing piston, other.
- 06 Fixed wing turboprop, 2 engines, 1-12 seats.
- 07 Fixed wing turboprop, 2 engines, 13+ seats.
- 08 Fixed wing turboprop, other.
- 09 Fixed wing turbojet, 2 engines.
- 10 Fixed wing turbojet, other.
- 11 Rotorcraft, piston.
- 12 Rotorcraft, turbine.
- 13 Other aircraft.

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
CY 1979 (2 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
AMD FALC20	196	195	3	1.7	99.5	1.7
ANCRN37	46	46	0	0.0	100.0	0.0
ARCTICS1A	94	28	6	21.5	29.3	6.3
ARCTICS1B1	7	11	1	12.7	43.5	5.5
ARONCAL5	123	123	5	3.8	58.2	2.2
ARONCAL55	154	76	12	15.8	47.9	7.6
ARONCAC3	53	8	4	55.3	14.2	7.8
ARONCA058	166	116	18	15.4	70.1	10.8
AYRES S2	947	847	27	3.2	89.5	2.9
BAL 111	29	28	0	0.0	100.0	0.0
BAG B206	35	34	5	14.0	96.3	13.4
BAG DH125	34	34	0	0.0	100.0	0.0
BAG HP137	26	14	4	28.2	53.5	15.1
BALWKSFIREFY	506	504	5	1.1	99.6	1.1
BEECH 100	222	222	0	0.0	100.0	0.0
BEECH 17	197	80	21	25.9	40.5	10.5
BEECH 18	1149	747	51	6.9	65.1	4.5
BEECH 200	392	389	7	1.9	99.2	1.9
BEECH 23	2841	2553	86	3.4	89.9	3.0
BEECH 33	1592	1564	27	1.7	98.2	1.7
BEECH 35	7157	6663	107	1.6	95.9	1.5

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
CY 1979 (3 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
BEECH 36	1265	1227	30	2.4	97.0	2.4
BEECH 45	329	293	12	3.9	89.2	3.5
BEECH 50	376	340	16	5.3	90.4	4.8
BEECH 54	2181	2134	36	1.8	97.9	1.7
BEECH 56	68	67	2	2.8	98.3	2.8
BEECH 58	1003	1003	0	0.0	100.0	0.0
BEECH 60	364	355	12	3.4	97.5	3.3
BEECH 65	172	163	6	3.7	94.5	3.5
BEECH 76	191	191	0	0.0	100.0	0.0
BEECH 77	47	47	0	0.0	100.0	0.0
BEECH 80	227	212	13	6.0	93.3	5.6
BEECH 90	865	864	5	0.6	99.9	0.6
BEECH 95	505	446	29	6.5	88.2	5.7
BEECH 99	90	89	3	3.1	98.7	3.1
BELL 204	145	98	11	11.6	67.8	7.9
BELL 206	1483	1437	34	2.4	96.9	2.3
BELL 212	108	105	7	6.6	97.6	6.4
BELL 47	1609	1242	90	7.3	77.2	5.6
BLANCH	995	745	75	10.1	74.9	7.6
BLANCH 413	310	154	36	23.0	49.8	11.7
BLANCH 419	313	257	31	12.1	82.1	10.0

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
CY 1979 (4 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
BLANCA17	1082	1029	50	4.9	95.1	4.6
BLANCA7	6165	4667	97	2.2	72.5	1.6
BLANCA8	679	643	34	5.2	94.7	5.0
BHORM 8N2	92	56	12	21.8	60.6	13.2
BOEING707	51	38	4	9.9	74.0	7.3
BOEING727	27	25	2	6.4	93.5	6.0
BOEING75	2080	1045	93	8.9	50.2	4.5
BOEING817	22	17	2	12.3	77.3	9.5
BOLKMS105	65	42	12	29.4	64.1	18.8
BRAERODH125	96	95	0	0.0	99.0	0.0
BRAVOV1528	50	44	2	5.1	87.3	4.5
BRAWSTAFLEET2	30	12	2	13.1	39.5	5.2
BRAWSTAFLEET7	22	8	1	6.3	36.2	2.3
CAMRONMOE n	80	78	4	4.8	97.0	4.6
CESSNA120	940	793	54	6.8	84.4	5.8
CESSNA140	2567	1953	126	6.4	76.1	4.9
CESSNA150	19631	18101	274	1.5	92.2	1.4
CESSNA170	2644	2096	91	4.4	79.3	3.5
CESSNA172	23306	22407	201	0.9	96.1	0.9
CESSNA175	1458	1321	31	2.4	90.6	2.1
CESSNA177	3084	3006	47	1.6	97.5	1.5

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
CY 1979 (5 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF AL / E AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
CESSNA180	2795	2651	67	2.5	94.9	4.4
CESSNA182	13120	12723	127	1.0	97.0	1.0
CESSNA185	1416	1349	51	3.8	95.3	3.6
CESSNA188	1902	1701	81	4.7	89.5	4.2
CESSNA190	89	60	4	6.2	67.7	4.2
CESSNA195	537	354	27	7.6	66.0	5.0
CESSNA206	2787	2611	79	3.0	93.7	2.8
CESSNA207	323	300	22	7.4	92.9	6.9
CESSNA210	5758	5571	86	1.5	96.8	1.5
CESSNA305	248	168	25	14.8	67.6	10.0
CESSNA310	3341	3146	84	2.7	94.2	2.5
CESSNA320	369	367	4	1.2	99.6	1.2
CESSNA336	102	81	4	5.5	79.3	4.4
CESSNA337	1350	1301	41	3.2	96.4	3.1
CESSNA340	762	762	0	0.0	100.0	0.0
CESSNA401	258	241	17	6.9	93.5	6.4
CESSNA402	610	518	35	6.7	84.5	5.7
CESSNA404	96	89	7	7.4	93.2	6.9
CESSNA411	201	183	8	4.4	91.1	4.0
CESSNA414	602	601	4	0.7	99.8	0.7
CESSNA421	1143	1115	24	2.1	97.6	2.1

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
CY 1979 (6 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
CESSNA441	74	44	5	7.6	86.7	6.6
CESSNA500	294	294	0	0.0	100.0	0.0
CESSNA750	85	20	3	14.2	23.9	3.4
CESSNAUC77	22	8	1	17.7	36.2	6.4
CESSNAUC94	36	14	1	9.6	38.2	3.7
CHILD 52	122	108	9	8.6	88.8	7.7
COMWTH185	106	28	11	39.9	26.3	10.5
CONAERLA	463	330	45	13.7	71.3	9.8
CURTISC46	55	9	11	123.1	16.0	19.6
CURTISJR	21	2	1	38.1	11.7	4.5
CURTISROBIN	35	7	1	15.1	19.0	2.9
CURTISTRVATR	183	34	6	17.8	18.4	3.3
CVAC 22	43	11	1	9.3	26.7	2.5
CVAC 240	60	23	4	17.6	38.5	6.8
CVAC 340	26	18	4	20.8	65.6	14.4
CVAC 440	24	1	3	243.8	5.3	13.0
CVAC BT13	101	37	7	18.3	36.8	6.7
CVAC L13	23	1	1	78.8	4.8	3.8
CVAC ST-560	37	35	3	8.9	94.1	8.4
DART G	26	11	1	8.9	42.7	3.8
DHAY DHC1	93	70	10	13.5	75.7	10.3

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
CY 1979 (7 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
DHAV DMC2	345	218	23	10.5	59.7	6.3
DHAV DMC3	22	14	3	20.2	61.5	12.4
DMVYKDH82	102	47	9	20.1	45.6	9.2
DOUG A26	68	20	6	31.5	29.9	9.4
DOUG DC3	482	291	33	11.5	60.4	6.9
DOUG DC4	84	39	5	13.0	46.5	6.1
DOUG DC6	121	69	7	9.8	57.4	5.6
DOUG DC7	48	33	6	17.7	67.9	12.0
DOUG DC8	53	34	2	6.9	65.1	4.5
DOUG DC9	9	9	0	0.0	100.0	0.0
EIRVON20	97	93	5	5.4	95.5	5.2
EMAIR MA1	28	12	3	23.4	44.6	10.4
ENSTAMP28	412	312	20	6.5	75.8	4.9
FLEET 168	27	15	1	9.0	53.9	4.9
FRCHLD24	316	70	25	35.5	22.1	7.8
FRCHLDC119	27	17	5	28.5	64.2	18.3
FRCHLDP27	35	26	4	14.9	75.4	11.2
FRCHLDPH1100	80	72	3	4.3	89.7	3.9
FRCHLDM62	243	138	23	16.3	57.0	9.3
GENBALAX6	28	28	0	0.0	100.0	0.0
GLASFLLTBELL	165	156	10	6.4	94.6	6.0

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
CY 1979 (8 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
GRAB ASTJR	50	50	0	0.0	100.0	0.0
GRTLKST1	175	140	7	4.9	80.2	4.0
GRUMANTB	37	9	6	65.3	23.4	15.3
GRUMAVAA1	652	639	16	2.5	98.1	2.4
GRUMAVAA5	1065	1041	24	2.3	97.8	2.3
GRUMAVG164	626	576	36	6.3	92.0	5.8
GULSTMAA1	666	645	23	3.6	96.9	3.5
GULSTMAA5	556	912	32	3.5	95.4	3.3
GULSTMG1159	142	142	0	0.0	100.0	0.0
GULSTMG159	144	140	6	4.3	97.5	4.2
GULSTMG164	964	851	48	5.6	88.3	5.0
GULSTMG21	44	12	4	31.3	26.4	8.3
GULSTMG44	90	84	8	9.5	93.6	8.9
GULSTMG73	28	12	5	44.4	41.8	18.5
GULSTMGAT	66	66	0	0.0	100.0	0.0
HELIO H250	22	20	1	5.6	89.9	5.1
HELIO H295	113	86	6	6.6	75.7	5.0
HELIO H391	27	9	2	23.5	31.8	7.5
HELIO H395	24	19	2	10.5	80.9	8.5
HILLERUM12	691	403	57	14.7	58.3	8.2
HUGHES269	665	488	46	9.3	73.4	7.0

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
CY 1979 (9 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE (OF ACTIVE AIRCRAFT)	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
HUGHES 369	454	446	12	2.7	98.1	2.7
HWK SLYDH104	44	9	4	36.9	21.5	8.0
HWK SLYDH114	46	41	1	3.5	85.5	3.1
HWK SLYDH125	37	37	0	0.0	100.0	0.0
MYNES 82	140	79	4	4.7	56.4	2.7
ISRAEL 1121	120	97	13	13.2	81.2	10.8
ISRAEL 1124	68	68	0	0.0	100.0	0.0
JRMSTRUGA15	83	50	15	29.4	60.1	17.7
KHILOWD	288	160	34	20.6	57.7	11.9
LAIRFN10	46	10	2	16.4	21.6	3.5
LEAR 23	70	70	0	0.0	100.0	0.0
LEAR 24	198	195	5	2.6	98.4	2.6
LEAR 25	202	182	16	8.8	90.3	7.9
LEAR 35	188	188	0	0.0	100.0	0.0
LEF 113	184	152	11	7.5	82.9	5.2
LMHEED124	24	15	3	18.3	63.3	11.6
LMHEED1329	146	146	0	0.0	100.0	0.0
LMHEFD18	89	46	6	12.7	51.4	6.5
LMHEFDV1	62	37	7	19.8	60.4	11.9
LMHEFDY33	58	0	0	0.0	0.0	0.0
LUSCOMB	2365	1448	121	8.4	61.2	5.1

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
(CY 1979 (10 of 1))

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
WESTINGHOUSE	25	17	4	23.4	69.1	17.6
MAULE M4	284	253	17	6.8	88.9	6.0
MAULE M5	387	343	5	1.2	89.0	1.2
MCCLUNG	40	12	1	74.2	30.1	7.3
MCCLUNG UNKH	140	62	16	26.5	44.3	11.7
MEYERSOTH	52	31	4	12.8	60.3	7.7
MCCOUPPO	75	21	4	20.0	28.4	5.7
MWHITEMER	157	69	20	28.5	44.2	12.6
MCDONNELL	5532	5401	68	1.3	97.6	1.2
MCRCHT15205	51	44	2	5.3	86.3	4.6
MTSBSIMU2	434	434	0	0.0	100.0	0.0
MULTICD16	51	24	5	20.8	46.2	9.6
MAHER M25	55	19	5	24.6	35.4	8.7
MAHER F51	149	57	19	33.9	38.2	12.9
MAHER MA260	65	24	6	23.0	37.0	8.5
MAHER T6	475	345	40	10.2	83.0	8.5
NAVAL M34	163	51	3	6.5	31.0	2.0
NAVIONNAVION	1325	969	75	7.7	73.1	5.6
NORD SV4	52	24	9	36.0	45.7	16.5
ORLMELH19	41	6	8	139.0	13.7	19.0
PICARDAX6	171	151	9	5.9	88.8	5.2

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
CY 1979 (11 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
PILATUSB4	28	23	2	7.3	81.5	6.0
PIPER 600	232	232	0	0.0	100.0	0.0
PIPER J2	68	14	6	42.8	20.8	8.5
PIPER J3	4424	2540	195	7.7	57.4	4.4
PIPER J4	252	62	24	38.2	24.8	9.5
PIPER J5	372	167	11	6.6	44.8	2.9
PIPER PA12	1409	882	61	6.9	62.6	4.3
PIPER PA14	109	71	9	12.4	65.5	8.1
PIPER PA15	207	104	24	22.9	50.3	11.5
PIPER PA16	407	306	34	11.1	75.1	8.3
PIPER PA17	121	70	13	19.2	57.9	11.1
PIPER PA18	3510	2555	189	7.4	72.8	5.4
PIPER PA20	498	401	41	10.3	80.5	8.3
PIPER PA22	5384	3498	191	5.5	65.0	3.5
PIPER PA23	3221	3473	101	2.9	90.9	2.6
PIPER PA24	3413	3211	83	2.6	94.1	2.4
PIPER PA25	1753	1363	90	6.6	77.8	5.1
PIPER PA28	21091	20930	171	0.8	96.5	0.8
PIPER PA30	1336	1308	25	1.9	97.9	1.9
PIPER PA31	1687	1668	22	1.3	98.9	1.3
PIPER PA31T	296	296	0	0.0	100.0	0.0

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
CY 1979 (12 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
PIPER PA37	3854	3813	40	1.0	98.9	1.0
PIPER PA34	1742	1742	0	0.0	100.0	0.0
PIPER PA36	359	275	27	9.7	76.5	7.4
PIPER PA38	1244	1200	31	2.5	96.4	2.5
PIPER PA44	217	199	12	6.2	91.7	5.7
PRATT PRG1	22	5	3	60.3	23.0	13.9
PROPTJ200	103	85	11	13.4	82.4	11.0
RANKINS	58	20	4	20.9	34.8	7.3
RAVEN RX6	220	207	8	4.0	94.2	3.8
RAVEN S50	116	96	11	11.1	82.4	9.1
RAVEN S55	385	348	23	6.5	90.3	5.9
RAVEN S60	27	26	1	4.4	95.4	4.2
REIMS 150	22	22	0	0.0	100.0	0.0
RNELL112	768	743	23	3.1	96.7	3.0
RNELL500	385	384	5	1.2	99.7	1.2
RNELL520	66	42	4	9.1	63.3	5.8
RNELL560	167	124	14	11.3	84.7	9.4
RNELL680	413	290	35	11.9	70.2	8.4
RNELL680TP	129	123	3	2.4	95.4	2.2
RNELL690TP	304	304	0	0.0	100.0	0.0
RNELL700	23	23	0	0.0	100.0	0.0

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
CY 1979 (13 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
AKWELMA265	289	283	9	3.1	97.9	3.1
ROLSCHLS	79	76	1	1.1	96.6	1.0
RYAN ST3	170	80	22	27.7	47.2	13.1
RYAN STA	35	7	1	19.9	20.0	4.0
SCHLERAS15	39	37	2	4.2	94.4	3.9
SCHLERAS419	47	46	1	2.8	97.9	2.8
SCHLERAS420	37	36	1	2.8	96.9	2.7
SCHLERK8	26	15	3	22.4	56.1	12.4
SCHLERKAB	81	66	2	2.9	81.6	2.0
SCHWERS01	776	431	37	9.1	81.4	7.4
SCHWERS02	429	464	49	10.6	73.8	7.8
SCHWERT03A	23	5	1	29.6	20.8	6.2
SEMCO CLINGER	32	25	2	8.9	78.3	6.9
SEMCO MODEL T	38	24	3	12.5	63.2	7.9
SKR SKY55	90	57	8	14.6	63.2	9.2
SKR SKY58	66	52	7	13.4	78.5	10.7
SKR SKY58T	23	16	2	13.7	67.6	9.3
SLIMOS100	370	356	11	3.1	96.3	3.0
SMITH 600	197	193	5	2.6	97.7	2.6
VIAS 350	56	54	5	8.9	96.5	8.6
VIAS SA110	38	17	11	62.3	45.3	28.3

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
CY 1979 (14 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
DC-10	42	32	6	18.9	76.7	14.5
DOUGLAS	44	41	3	7.3	92.8	6.8
SPRINT	110	99	3	3.3	90.2	3.0
SPRINT	38	37	1	1.9	97.0	1.8
STENO	186	68	14	21.3	36.5	7.8
STENO	140	48	6	11.8	34.6	4.1
STENO	28	6	1	23.0	20.2	4.7
STENO	257	62	16	25.1	24.2	4.1
SUPAC LA	107	18	4	22.2	16.6	3.7
SUPAC V	27	12	2	15.3	44.1	4.7
SWINGSA226	145	134	6	4.4	92.3	4.0
SWINGSA226	107	102	5	5.3	95.5	5.1
TCRAFTA	33	8	2	31.5	23.2	7.3
TCRAFTBC	1947	883	84	9.5	45.4	4.3
TCRAFTBP	45	18	3	14.3	39.2	5.6
TCRAFTBL	242	134	25	18.9	55.2	10.4
TEMCO 11A	34	23	2	7.7	66.9	5.1
THORAX	32	31	0	1.4	96.8	1.4
TRYTEK	33	5	2	43.2	14.0	6.1
UNIVACGCI	716	420	37	8.9	58.6	5.2
UNIVARIOB	2286	1387	32	2.3	60.7	1.4

TABLE 2-11 GENERAL AVIATION ACTIVE AIRCRAFT BY SDR AIRCRAFT MANUFACTURER/MODEL GROUP
CY 1979 (15 of 15)

MANUFACTURER/MODEL GROUP	GROUP SIZE	ESTIMATE OF ACTIVE AIRCRAFT	STANDARD ERROR	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	STANDARD ERROR
UNIVAR415	2608	1850	135	7.3	71.0	5.2
WARGA 2150	35	34	1	3.5	97.0	3.4
WACO 450	30	9	2	18.7	30.0	5.6
WACO GXC	34	9	2	16.3	27.9	4.5
WACO R	35	13	4	28.3	36.0	10.2
WACO U	32	9	2	18.6	29.1	5.4
WACO UPF7	163	78	3	3.8	47.7	1.8
WACO YK	58	10	2	19.2	17.3	3.3
WOODH65	373	141	4	4.6	37.7	1.7
WYRLY201	76	66	6	8.4	87.4	7.5
TOTAL	248070	210339	789	0.4	84.8	0.3

TABLE 2-12 GENERAL AVIATION AVIONICS EQUIPMENT BY AIRCRAFT TYPE - CY 1979 (1 of 8)

TYPE	VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT				ILS RECEIVING EQUIPMENT			
	360 CH	720 CH	2+ SYS	NO COMM	4096 CODE	ALT ENC	NO TRANS	LOC	MKER REC	GLIDE SLGPE	MLS C	NO ILS
FIXED WING PISTON	42495	10243	8003	31996	17886	1648	66082	14310	6587	4071	54	68526
	A	A	A	A	A	B	A	A	A	A	C	A
	50.6	12.2	9.5	38.1	21.3	2.0	78.7	17.0	7.8	4.8	0.1	85.1
1 ENG 4+ SEATS ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF TYPE	67371	50969	76230	2876	92757	34075	22749	80891	74805	55867	354	30857
	A	A	A	A	A	A	A	A	A	A	C	A
	58.3	44.1	66.0	2.5	80.3	29.5	19.7	70.0	64.8	51.8	0.3	26.1
TOTAL 1 ENG ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF TYPE	109866	61212	84234	34872	110643	35723	88832	95201	81473	62939	468	55823
	A	A	A	A	A	A	A	A	A	A	C	A
	55.1	30.7	42.2	17.5	55.5	17.5	44.5	47.7	40.8	32.1	6.2	45.6
2 ENG 1-6 SEATS ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF TYPE	7505	11175	15276	252	17571	13414	499	17450	17086	16366	71	561
	A	A	A	C	A	A	B	A	A	A	C	B
	41.5	61.8	84.5	1.4	97.2	74.2	2.8	96.6	54.6	50.6	0.4	3.1
<div> <div>STANDARD ERROR</div> <div> <div>GREATER THAN</div> <div>LESS THAN OR EQUAL TO</div> <div>CODE</div> </div> </div> <div> <div>0 %</div> <div>10 %</div> <div>20 %</div> <div>30 %</div> <div>A</div> <div>B</div> <div>C</div> <div>D</div> </div>												

TABLE 2-12 GENERAL AVIATION VIOLENCE INCIDENTS

TYPE	VIOLENCE COMMUNICATIONS				TRANSMISSIONS				RECEIPTS			
	NO. OF CH	7-10 CH	21-30 CH	31-40 CH	41-50 CH	51-60 CH	61-70 CH	71-80 CH	81-90 CH	91-100 CH	101-110 CH	111-120 CH
2 ENG 7+ SEATS												
ESTIMATED POPULATION	3015	6369	7699	254	8716	7375	554					
% STANDARD ERROR	A	A	A	B	A	A	B					
ESTIMATED % OF TYPE	32.5	74.7	81.0	.7	44.0	79.6	6.0					
TOTAL 2 ENG												
ESTIMATED POPULATION	10521	17544	22976	506	20000	20790	1053					
% STANDARD ERROR	A	A	A	B	A	A	A					
ESTIMATED % OF TYPE	38.5	64.2	94.0	1.5	60.1	76.0	3.5					
OTHER PISTON												
ESTIMATED POPULATION	200	173	229	39	111	174	17					
% STANDARD ERROR	A	A	A	C	A	A	B					
ESTIMATED % OF TYPE	91.6	44.5	59.0	10.2	80.1	44.4	19.9					
TOTAL PISTON												
ESTIMATED POPULATION	120584	73930	107439	35418	137643	56684	85063					
% STANDARD ERROR	A	A	A	A	A	A	A					
ESTIMATED % OF TYPE	53.1	34.7	47.3	15.6	60.4	24.5	39.6					
TURBOPROP												
2 ENG 11-12 SEATS												
ESTIMATED POPULATION	614	2425	2605	7	2988	2860	17					
% STANDARD ERROR	B	A	A	D	A	A	D					
ESTIMATED % OF TYPE	20.6	81.2	87.3	0.3	95.4	45.8	0.2					
2 ENG 13+ SEATS												
ESTIMATED POPULATION	155	440	512	1	542	502	38					
% STANDARD ERROR	C	A	A	D	A	A	D					
ESTIMATED % OF TYPE	26.0	75.4	87.7	0.3	92.9	86.0	6.6					

STANDARD ERROR		CODE	
GREATER THAN	-----	LESS THAN	-----
0 %	10 %	10 %	10 %
10 %	20 %	20 %	20 %
20 %	30 %	30 %	30 %
30 %	40 %	40 %	40 %

TABLE 2-12 GENERAL AVIATION AVIONICS EQUIPMENT BY AIRCRAFT TYPE C) 1579 (3 of 8)

TYPE	VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT				ILS RECEIVING EQUIPMENT			
	360 CH	720 CH	2° CH	NO SYS COMM	4096 CODE	ALT ENC	NC TRANS	LUC	WKR FFL	GLIDE SLOPE	MCS	NC ILS
TOTAL 2 ENG												
ESTIMATED POPULATION	170	2865	3118	9	3511	3362	55	3542	3494	2434	114	11
% STANDARD ERROR	B	A	A	D	A	A	C	A	A	A	A	U
ESTIMATED % OF TYPE	21.5	80.3	87.3	0.3	98.6	94.7	1.6	93.4	97.9	95.4	3.2	0.5
OTHER TURBOPROP												
ESTIMATED POPULATION	36	51	55	44	72	45	52	73	62	65	0	57
% STANDARD ERROR	B	A	A	A	A	A	A	A	A	A	A	A
ESTIMATED % OF TYPE	27.9	38.9	42.1	31.8	55.2	37.2	44.1	55.9	47.3	49.3	0.0	43.4
TOTAL TURBOJET												
ESTIMATED POPULATION	806	2417	3173	54	3583	3411	114	3522	3556	2505	114	74
% STANDARD ERROR	B	A	A	B	A	A	A	A	A	A	A	B
ESTIMATED % OF TYPE	21.8	78.8	85.7	1.5	96.8	92.2	3.1	97.8	96.1	94.7	3.1	2.0
TURBOJET												
ESTIMATED POPULATION	236	2274	2148	5	2368	2239	14	2370	2347	2337	27	11
% STANDARD ERROR	B	A	A	D	A	A	D	A	A	A	C	C
ESTIMATED % OF TYPE	9.9	95.4	90.2	0.2	95.4	94.0	0.6	99.5	98.5	98.2	1.6	9.5
OTHER												
ESTIMATED POPULATION	146	313	384	107	442	335	108	444	409	412	5	106
% STANDARD ERROR	B	A	A	A	A	A	A	A	A	A	C	A
ESTIMATED % OF TYPE	26.5	56.9	69.7	19.4	80.3	60.9	19.7	80.7	74.3	74.9	1.8	15.3
TOTAL TURBOJET												
ESTIMATED POPULATION	383	2587	2533	112	2810	2574	123	2815	2756	2751	47	117
% STANDARD ERROR	B	A	A	B	A	A	B	A	A	A	C	B
ESTIMATED % OF TYPE	13.1	88.2	86.3	3.8	95.8	87.7	4.2	96.0	94.0	93.8	1.6	4.0

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL TO		
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-12 GENERAL AVIATION AVIONICS EQUIPMENT BY AIRCRAFT TYPE - CY 1979 (4 of 8)

TYPE	VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT				ILS RECEIVING EQUIPMENT			
	360 CH	720 CH	2° SYS	NO COMM	4096 CODE	ALT ENC	NU TRANS	LOC	MKR REC	GLIDE SLOPE	PLS	NC ILS
TOTAL FIXED WING												
ESTIMATED POPULATION	121777	84435	113146	35505	143628	62673	90201	128028	113655	95317	755	100482
% STANDARD ERROR	A	A	A	A	A	A	A	A	A	A	B	A
ESTIMATED % OF TYPE	52.1	36.1	48.4	15.2	61.4	26.8	38.6	54.7	48.6	40.8	0.3	43.0
ROTORCRAFT												
PISTON												
ESTIMATED POPULATION	2016	720	157	2646	757	41	5588	118	43	40	32	5224
% STANDARD ERROR	A	B	D	A	B	C	A	D	C	D	C	A
ESTIMATED % OF TYPE	37.7	13.5	2.9	49.5	14.2	6.8	85.8	2.2	0.8	0.7	0.6	97.7
TURBINE												
ESTIMATED POPULATION	1033	1871	748	119	1643	343	1380	911	567	485	1	2073
% STANDARD ERROR	B	A	C	C	A	C	A	B	D	B	C	A
ESTIMATED % OF TYPE	34.2	61.9	24.8	4.0	54.4	11.4	45.6	30.1	18.8	16.0	0.1	68.6
TOTAL ROTORCRAFT												
ESTIMATED POPULATION	3049	2592	905	2766	2401	384	5968	1030	610	525	34	7297
% STANDARD ERROR	A	A	B	A	A	E	A	B	R	B	D	A
ESTIMATED % OF TYPE	76.4	31.0	10.8	33.1	28.7	4.6	71.3	12.3	7.3	6.3	0.4	87.2
OTHER												
ESTIMATED POPULATION	2290	250	43	3717	61	5	5794	33	6	2	2	5822
% STANDARD ERROR	A	C	D	A	C	C	A	D	D	D	D	A
ESTIMATED % OF TYPE	39.1	4.3	0.7	56.7	1.1	0.2	98.9	0.6	0.1	0.0	0.0	95.4
TOTAL AIRCRAFT												
ESTIMATED POPULATION	127117	87278	114095	41670	146101	63067	101963	129092	114312	95845	792	113603
% STANDARD ERROR	A	A	A	A	A	A	A	A	A	A	C	A
ESTIMATED % OF POP	51.2	33.2	46.0	16.8	58.9	25.4	41.1	52.0	46.1	38.6	0.3	45.2

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

STANDARD ERROR		CODE	
GREATER THAN	-----	LESS THAN	-----
OR		OR	
EQUAL TO	-----	EQUAL TO	-----
0 %	-----	10 %	-----
10 %	-----	20 %	-----
20 %	-----	30 %	-----
30 %	-----		-----

TABLE 2-12 GENERAL AVIATION: IONICS EQUIPMENT BY AIRCRAFT TYPE - CY 1979 (5 of 8)

TYPE	VOR 100CH	VOR 200CH	Z+ ACVR	M/F	NAVIGATION EQUIPMENT				RADAR ALT	WHA RADAR	NO NAVEQ
					DME	RNAV	LNAV	AUTOPLT			
FIXED WING											
PISTON											
1 ENG 1-3 SEATS											
ESTIMATED POPULATION	32157	15397	8013	5966	1016	274	97	612	160	76	36462
% STANDARD ERROR	A	A	A	A	B	D	0	C	0	0	A
ESTIMATED % OF TYPE	38.3	18.4	9.5	7.1	1.2	0.3	0.1	0.7	0.2	0.1	43.4
1 ENG 4+ SEATS											
ESTIMATED POPULATION	47321	88876	83342	78622	35070	6853	496	44035	2833	788	3407
% STANDARD ERROR	A	A	A	A	A	A	C	A	B	C	A
ESTIMATED % OF TYPE	41.0	59.6	72.2	63.2	30.3	5.5	0.4	38.1	2.5	6.7	3.9
TOTAL 1 ENG											
ESTIMATED POPULATION	79478	84673	91366	84787	34035	7130	593	44617	2954	850	39876
% STANDARD ERROR	A	A	A	A	A	A	C	A	B	C	A
ESTIMATED % OF TYPE	39.8	42.4	45.8	42.5	18.1	3.4	0.3	22.4	1.5	0.4	20.0
2 ENG 1-3 SEATS											
ESTIMATED POPULATION	5520	12759	14600	17077	15170	4967	305	15148	3266	4646	352
% STANDARD ERROR	A	A	A	A	A	A	D	A	A	A	C
ESTIMATED % OF TYPE	30.5	70.6	91.9	94.5	84.0	27.5	1.7	83.8	18.1	25.8	1.9
2 ENG 7+ SEATS											
ESTIMATED POPULATION	2219	6956	8203	8614	7551	2084	266	7032	2792	4453	302
% STANDARD ERROR	A	A	A	A	A	A	C	A	A	A	B
ESTIMATED % OF TYPE	23.9	75.0	88.5	92.9	81.4	32.2	2.5	75.9	30.1	48.5	3.3
TOTAL 2 ENG											
ESTIMATED POPULATION	7739	19715	24818	25692	22721	7951	571	22100	6059	9102	661
% STANDARD ERROR	A	A	A	A	A	A	C	A	A	A	B
ESTIMATED % OF TYPE	28.3	72.1	90.8	94.4	83.1	29.1	2.1	91.1	22.2	33.5	2.4

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN		
EQUAL TO			
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %	40 %	D	

TABLE 2-12 GENERAL AVIATION AVIONICS EQUIPMENT BY AIRCRAFT TYPE - CY 1979 (6 of 8)

TYPE	NAVIGATION EQUIPMENT										
	VOR 100CH	VOR 200CH	2° RCVR	ADF	OME	RNAV	LRNAV	AUTOPLT	R-00AR ALT	WTHR RADAR	NO NAVEG
OTHER PISTON ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF TYPE	149	221	274	274	177	26	21	133	60	115	44
	A	A	A	A	A	C	D	A	B	B	B
	38.4	57.0	70.6	70.7	45.7	6.8	5.6	34.2	15.4	30.8	11.4
TOTAL PISTON ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF TYPE	87368	104611	116460	110754	58938	15108	1187	66931	9112	10133	40515
	A	A	A	A	A	A	B	A	A	A	A
	38.5	46.0	51.3	48.7	25.9	6.6	0.5	25.5	4.0	4.5	17.5
TURBOPROP 2 ENG 1-12 SEATS ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF TYPE	486	2482	2827	2905	2888	1971	231	2897	2339	2821	5
	B	A	A	A	A	A	C	A	A	A	D
	16.3	83.1	94.7	97.3	96.7	66.0	7.7	97.0	78.3	54.5	0.2
2 ENG 13+ SEATS ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF TYPE	81	526	567	532	561	122	68	299	228	493	6
	D	A	A	A	A	C	D	A	B	A	D
	13.9	90.2	97.2	91.4	96.1	21.0	11.6	51.3	39.1	84.5	1.2
TOTAL 2 ENG ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF TYPE	567	3009	3395	3439	3449	2094	299	3197	2567	3314	12
	B	A	A	A	A	A	B	A	A	A	C
	15.9	84.3	95.1	96.3	96.6	58.7	8.4	89.6	71.9	52.5	0.3
OTHER TURBOPROP ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF TYPE	13	69	61	72	64	8	15	48	40	48	48
	B	A	A	A	A	C	B	A	A	A	A
	10.3	53.0	46.7	55.2	49.0	6.1	11.4	36.8	30.8	36.8	36.5

STANDARD ERROR		CODE	
GREATER THAN		LESS THAN OR EQUAL TO	
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-12 GENERAL AVIATION AVIONICS EQUIPMENT BY AIRCRAFT TYPE - CY 1979 (7 of 8)

TYPE	NAVIGATION EQUIPMENT										
	VOR 100CH	VOR 200CH	2° RCVR	ADF	DME	RNAV	LRNAV	AUTOPT	RADAR ALT	WTHR RADAR	ND NAVLG
TOTAL TURBOPROP											
ESTIMATED POPULATION	581	1079	3456	3712	3517	2107	314	3243	2608	3263	61
% STANDARD ERROR	B	A	A	A	A	A	B	A	A	A	D
ESTIMATED % OF TYPE	15.7	81.2	93.4	94.9	77.9	56.8	9.5	87.7	70.5	56.9	1.7
TURBOJET											
2 ENG											
ESTIMATED POPULATION	115	2274	2288	2301	2348	878	786	2321	2134	2266	13
% STANDARD ERROR	C	A	A	A	A	A	A	A	A	A	C
ESTIMATED % OF TYPE	4.8	95.4	96.0	96.6	98.6	16.9	33.0	97.4	69.6	53.1	0.6
OTHER											
ESTIMATED POPULATION	70	377	393	406	419	131	244	368	286	349	55
% STANDARD ERROR	B	A	A	A	A	B	A	A	A	A	E
ESTIMATED % OF TYPE	12.7	68.4	71.5	73.8	76.1	23.9	44.3	66.8	51.4	63.4	17.3
TOTAL TURBOJET											
ESTIMATED POPULATION	185	2651	2682	2708	2767	1010	1030	2689	2420	2616	108
% STANDARD ERROR	B	A	A	A	A	A	A	A	A	A	B
ESTIMATED % OF TYPE	6.3	90.4	91.2	92.3	94.3	34.4	35.1	91.7	82.5	85.2	3.7
TOTAL FIXED WING											
ESTIMATED POPULATION	88134	110341	122599	116974	65220	18221	2532	72867	14141	16112	40745
% STANDARD ERROR	A	A	A	A	A	A	A	A	A	A	A
ESTIMATED % OF TYPE	37.7	47.2	52.4	50.0	27.9	7.8	1.1	31.2	6.0	6.6	17.4
ROTCRAFT											
PISTON											
ESTIMATED POPULATION	494	155	41	323	39	37	38	35	44	41	4491
% STANDARD ERROR	B	C	D	C	D	D	D	D	D	D	A
ESTIMATED % OF TYPE	9.3	2.9	0.8	6.1	0.7	0.7	0.7	0.7	0.8	0.8	84.0

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL TO		
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-12 GENERAL AVIATION AVIONICS EQUIPMENT BY AIRCRAFT TYPE - CY 1979 (8 of 8)

TYPE	NAVIGATION EQUIPMENT										
	VOR 100CH	VOR 200CH	2+ RCVR	ADF	ONE	RNAV	LHNAV	AUTOPLT	RADAR ALT	WTR RADAR	NC NAVEQ
TURBINE	522	1240	455	1950	604	385	271	110	255	57	446
	B	A	B	A	B	C	C	C	C	D	B
	17.3	41.0	15.1	64.5	20.0	12.7	9.0	3.7	5.8	1.5	14.8
TOTAL ROTORCRAFT	1017	1396	496	2274	643	422	309	146	340	98	4937
	B	A	B	A	B	B	C	C	C	D	A
	12.2	16.7	5.9	27.2	7.7	5.1	1.7	1.7	4.1	1.2	55.0
OTHER	67	47	2	12	9	3	9	5	23	8	5713
	D	D	D	D	D	D	D	D	L	D	A
	1.2	0.8	0.0	0.2	0.2	0.1	0.2	0.1	0.4	0.2	97.6
TOTAL AIRCRAFT	89219	111785	123098	119260	65873	18647	2852	73019	14505	16219	51397
	A	A	A	A	A	A	A	A	A	A	A
	36.0	45.1	49.6	48.1	26.6	7.5	1.1	29.4	5.8	6.5	20.7
NOTE : COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.											

NOTE : COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL TO		
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT - CY 1979
(1 of 17)

STATE	VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT			ILS RECEIVING EQUIPMENT				
	J60 CH	720 CH	2+ SYS	NO COMM	4096 CODE	ALT ENC	AC TRANS	LOC	MKER REC	GLIDE SLOPE	MLS	NC ILS
ALABAMA												
ESTIMATED POPULATION & STANDARD ERROR	1151 B	1170 B	1434 B	571 C	1707 A	611 B	1110 B	1570 B	1381 B	1243 B	0 A	1204 B
ESTIMATED % OF STATE	39.7	40.3	49.4	19.7	58.8	27.9	38.2	54.1	47.6	42.8	0.0	41.5
ALASKA												
ESTIMATED POPULATION & STANDARD ERROR	4708 A	1635 B	1584 B	1038 B	1624 B	292 C	5548 A	1785 B	1383 B	1244 B	1 D	5202 A
ESTIMATED % OF STATE	68.3	23.7	23.0	15.1	23.5	4.2	80.4	25.9	20.1	18.0	0.0	75.4
ARIZONA												
ESTIMATED POPULATION & STANDARD ERROR	2572 B	2044 B	2493 B	918 B	3455 B	1314 B	1949 B	2666 B	2304 B	1820 B	0 A	2645 B
ESTIMATED % OF STATE	47.7	37.9	46.3	17.1	64.1	24.4	36.2	49.5	42.8	33.8	0.0	45.1
ARKANSAS												
ESTIMATED POPULATION & STANDARD ERROR	1246 B	958 B	1256 B	1035 B	1466 B	613 C	1678 B	1443 B	1252 B	1117 B	27 D	1679 B
ESTIMATED % OF STATE	40.2	30.9	40.5	33.4	47.3	19.8	54.1	46.5	40.4	36.0	0.9	54.2
CALIFORNIA												
ESTIMATED POPULATION & STANDARD ERROR	17921 A	12450 A	16845 A	3991 A	21787 A	10427 A	11368 A	18978 A	17258 A	14714 A	149 C	13193 A
ESTIMATED % OF STATE	54.0	37.5	50.8	12.0	65.7	31.4	34.3	57.2	52.0	44.4	0.4	35.8

STANDARD ERROR		CODE
GREATER THAN	LESS THAN OR EQUAL TO	
0 %	10 %	A
10 %	30 %	B
30 %		C
		D

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT CY 1979
(2 of 17)

STATE	VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT			ILS RECEIVING EQUIPMENT				
	360 CH	220 CH	2° SYS	NO COMM	4096 CODE	ALT ENC	NO TRANS	LOC	PKR RFC	CLIDE SLOPE	MLS	MC ILS
COLORADO	ESTIMATED POPULATION	2575	2310	2422	689	3146	1447	2208	2777	2710	2051	1
	% STANDARD ERROR	B	B	B	B	B	B	B	B	B	B	B
CONNECTICUT	ESTIMATED POPULATION	849	673	942	400	1119	603	790	1159	936	681	5
	% STANDARD ERROR	C	C	C	C	C	C	C	C	C	C	C
DELAWARE	ESTIMATED POPULATION	44.5	35.2	49.3	20.9	58.6	31.6	41.4	60.7	49.0	35.7	0.5
	% STANDARD ERROR	C	C	C	C	C	C	C	C	C	C	C
DC	ESTIMATED POPULATION	533	242	492	140	577	255	293	539	505	365	0
	% STANDARD ERROR	C	C	C	C	C	C	C	C	C	C	C
FLORIDA	ESTIMATED POPULATION	41.3	41	54	13	81	65	13	80	77	61	0
	% STANDARD ERROR	D	D	D	D	D	D	D	D	D	D	D
GEORGIA	ESTIMATED POPULATION	7012	4371	6196	1780	8141	3502	4585	6859	6441	5369	6
	% STANDARD ERROR	A	A	A	A	A	A	A	A	A	A	A
HAWAII	ESTIMATED POPULATION	2954	1473	1944	690	2812	1052	1918	2368	2066	1731	0
	% STANDARD ERROR	B	B	B	B	B	B	B	B	B	B	B
HAWAII	ESTIMATED POPULATION	302	247	227	69	366	51	237	269	243	222	0
	% STANDARD ERROR	C	C	C	C	C	C	C	C	C	C	C
HAWAII	ESTIMATED POPULATION	47.1	36.6	35.5	10.8	57.2	9.0	37.0	42.0	38.0	34.7	0.0
	% STANDARD ERROR	C	C	C	C	C	C	C	C	C	C	C

STANDARD ERROR		CCUE	
GREATER THAN	LESS THAN OR EQUAL TO	GREATER THAN	LESS THAN OR EQUAL TO
0 %	10 %	A	A
10 %	20 %	B	B
20 %	30 %	C	C
30 %		D	D

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT - CY 1979
(3 of 17)

STATE	VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT				ILS RECEIVING EQUIPMENT			
	360 CH	720 CH	2+ SYS	NO COMM	4096 CODE	ALT ENC	NO TRANS	LGL	PKEN DEC	GLIDE SLOPE	PLS	MC ILS
IDAHO	ESTIMATED POPULATION	1477	769	1053	466	1411	441	1238	1067	913	712	11
	% STANDARD ERROR	B	C	B	C	B	C	B	B	C	C	U
ILLINOIS	ESTIMATED % OF STATE	54.3	28.3	38.7	17.1	51.9	16.2	45.5	39.2	33.6	26.2	0.4
												56.5
INDIANA	ESTIMATED POPULATION	9078	3717	4754	1389	5732	2627	3946	5603	4840	2948	27
	% STANDARD ERROR	A	A	A	B	A	B	A	A	A	A	C
IOWA	ESTIMATED % OF STATE	91.8	38.6	49.0	14.3	59.1	27.1	40.7	57.7	49.9	40.7	0.3
												35.7
KANSAS	ESTIMATED POPULATION	2991	1604	2878	860	3452	1306	1803	2887	2657	2216	1
	% STANDARD ERROR	B	B	B	B	B	B	B	B	B	B	U
KENTUCKY	ESTIMATED % OF STATE	56.7	30.5	54.6	16.3	65.5	24.8	34.2	54.7	50.4	42.0	0.0
												42.0
LOUISIANA	ESTIMATED POPULATION	2150	1328	1912	754	2557	827	1543	2111	1907	1554	0
	% STANDARD ERROR	A	A	B	B	B	C	B	B	B	B	A
MISSISSIPPI	ESTIMATED % OF STATE	53.3	32.9	47.4	18.7	63.4	20.5	38.3	52.3	47.3	38.5	0.0
												46.8
NEBRASKA	ESTIMATED POPULATION	2012	1516	2112	1019	2832	1066	1657	2439	2082	1792	0
	% STANDARD ERROR	B	B	B	B	B	B	B	B	B	B	A
NEVADA	ESTIMATED % OF STATE	42.9	32.3	45.0	21.7	60.3	22.6	35.3	52.0	44.3	38.2	0.0
												41.7
NEW YORK	ESTIMATED POPULATION	955	682	852	194	1073	413	625	935	734	643	4
	% STANDARD ERROR	B	C	C	C	B	C	C	U	C	C	C
NORTH CAROLINA	ESTIMATED % OF STATE	57.0	40.7	50.8	11.6	64.1	24.7	37.3	55.8	44.1	38.4	0.2
												41.2
OHIO	ESTIMATED POPULATION	1292	2067	1749	663	2318	1100	1620	2175	1630	1286	1
	% STANDARD ERROR	B	B	B	B	B	B	B	B	B	B	C
OKLAHOMA	ESTIMATED % OF STATE	31.2	49.9	42.2	16.0	56.0	26.6	39.1	51.3	39.3	31.1	0.0
												41.5

STANDARD ERROR		CODE
GREATER THAN	LESS THAN OR EQUAL TO	
0 %	10 %	A
10 %	20 %	B
20 %	30 %	C
30 %		D

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT - CY 1979
(4 of 17)

STATE	VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT			ILS RECEIVING EQUIPMENT					
	360 CH	720 CH	2+ SYS	NO COMM	4096 CODE	ALT ENC	NO TRANS	LOC	MKR BEC	CLIDE SLOPE	MLS	NO ILS	
MAINE	ESTIMATED POPULATION	733	219	31.9	321	386	117	867	322	348	246	0	856
	% STANDARD ERROR	C	D	C	C	D	C	B	D	D	D	A	B
MARYLAND	ESTIMATED % OF STATE	58.2	17.4	27.7	25.6	30.7	9.4	65.9	25.6	27.7	19.6	0.0	68.1
	ESTIMATED POPULATION	1692	876	1291	336	1821	791	1044	1549	1391	1161	8	1231
MASSACHUSETTS	% STANDARD ERROR	B	B	B	C	B	C	B	B	B	B	D	B
	ESTIMATED % OF STATE	58.8	30.5	44.9	11.7	63.3	27.5	36.3	53.9	48.4	40.4	0.3	42.8
MICHIGAN	ESTIMATED POPULATION	2215	785	1516	338	1887	980	1326	1505	1562	1321	2	1520
	% STANDARD ERROR	B	C	B	C	B	C	B	B	B	B	D	B
MINNESOTA	ESTIMATED % OF STATE	69.7	24.7	47.7	10.4	59.3	30.8	41.7	49.2	45.1	41.5	0.1	41.8
	ESTIMATED POPULATION	4022	3450	4190	1201	5130	2033	3284	4494	4113	3139	0	3496
MISSISSIPPI	% STANDARD ERROR	47.2	40.5	49.2	14.1	60.2	23.5	38.6	52.8	48.3	36.5	0.0	41.1
	ESTIMATED POPULATION	3299	1403	2105	1439	2853	1071	3289	2419	2035	1678	93	3662
MISSOURI	% STANDARD ERROR	54.5	24.2	34.8	23.8	47.2	17.7	54.4	40.0	33.6	27.7	1.6	60.7
	ESTIMATED % OF STATE	844	849	795	811	1272	458	1209	1165	1055	817	0	1207
MISSOURI	% STANDARD ERROR	32.6	32.8	33.7	31.4	49.2	17.7	46.8	45.1	40.8	31.6	0.0	46.7
	ESTIMATED POPULATION	2680	1710	2224	954	2879	1042	2265	2557	1976	1849	35	2517
MISSOURI	% STANDARD ERROR	53.4	34.0	44.3	19.0	57.3	20.8	45.1	50.9	39.3	36.8	0.7	50.1

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN	GREATER THAN	LESS THAN
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0 3	10 3	10 3	A
10 3	20 3	20 3	B
20 3	30 3	30 3	C
30 3			D

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT - CY 1979
(5 of 17)

STATE	VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT				ILS RECEIVING EQUIPMENT			
	360 CH	720 CH	2+ SYS	NO COMM	4096 CODE	ALT ENC	NU TRANS	LOC	MKER BEC	CLIDE SLDPE	MLS	NO ILS
MONTANA												
ESTIMATED POPULATION	1596	689	994	595	1209	372	1364	849	916	678	4	1780
% STANDARD ERROR	B	C	B	C	B	D	B	C	C	C	U	B
ESTIMATED % OF STATE	61.1	26.4	38.0	22.4	46.3	14.2	59.8	32.5	35.0	26.0	0.2	68.1
NEBRASKA												
ESTIMATED POPULATION	1058	1061	962	749	1362	366	1422	1138	1072	833	1	1591
% STANDARD ERROR	B	B	B	C	B	C	B	B	B	C	U	B
ESTIMATED % OF STATE	36.3	36.4	33.0	25.1	46.8	12.6	48.8	39.1	36.8	28.6	0.0	54.6
NEVADA												
ESTIMATED POPULATION	1119	847	1218	108	1625	852	412	1230	1132	914	46	705
% STANDARD ERROR	B	B	B	D	B	B	C	B	B	B	U	C
ESTIMATED % OF STATE	55.5	42.0	60.4	9.4	80.6	42.2	20.4	61.0	56.2	45.3	2.3	35.0
NEW HAMPSHIRE												
ESTIMATED POPULATION	759	350	687	318	770	457	598	673	596	505	1	450
% STANDARD ERROR	C	D	C	C	C	C	C	C	C	C	C	L
ESTIMATED % OF STATE	58.7	27.1	53.2	24.7	59.6	35.4	46.3	52.1	43.0	39.1	0.1	50.3
NEW JERSEY												
ESTIMATED POPULATION	2226	1943	2373	544	2766	1523	1678	2633	2287	1920	6	1760
% STANDARD ERROR	B	B	B	B	B	B	B	B	B	B	U	B
ESTIMATED % OF STATE	51.0	44.5	54.4	12.5	63.4	34.5	38.4	60.3	52.4	44.0	0.2	40.3
NEW MEXICO												
ESTIMATED POPULATION	1264	991	1178	360	1629	800	816	1319	1099	1059	1	1099
% STANDARD ERROR	B	B	B	C	B	C	B	B	B	B	U	B
ESTIMATED % OF STATE	51.0	40.0	47.5	14.6	65.7	32.3	33.0	53.3	44.4	42.7	3.0	44.4
NEW YORK												
ESTIMATED POPULATION	4384	2159	3674	1402	4486	1956	1113	4250	3918	3200	75	3160
% STANDARD ERROR	A	B	A	B	A	B	A	A	A	B	U	A
ESTIMATED % OF STATE	58.6	28.9	49.1	18.8	60.0	26.5	41.6	56.8	52.4	42.8	1.0	42.3

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL TO		
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-13 GENERAL AVIATION AIRCRAFT'S EQUIPMENT BY STATE OF REGISTRATION (6 OF 17)

STATE	VHF COMMUNICATIONS				TRANSMITTER EQUIPMENT			ITS RECEIVING EQUIPMENT				
	360 CH	720 CH	2+ SYS	NO COMM	4056 CODE	ALT INC	NO TRANS	LOC	PREC REC	GLIDE SLOPE	MLS	NO TLS
NORTH CAROLINA	2401	1671	1034	845	1018	1104	1827	252M	2009	1057	0	2710
	B	B	B	B	B	B	B	B	B	B	A	B
	51.2	34.5	37.8	17.4	62.2	26.5	37.7	52.1	42.7	38.3	0.0	47.8
NORTH DAKOTA	842	361	479	502	714	117	1014	573	512	308	0	1125
	C	C	C	C	C	C	C	C	C	C	A	B
	51.3	20.8	27.6	28.9	41.3	6.8	59.5	33.0	29.5	21.2	0.0	66.4
OHIO	5214	2823	4561	1430	5617	1737	13648	5195	4374	3363	27	3767
	A	B	A	B	A	B	A	A	A	B	C	A
	58.2	31.5	50.7	16.0	60.6	19.8	40.7	58.0	48.8	37.5	0.3	42.0
OKLAHOMA	2455	1075	2234	894	2475	1217	2071	2593	2249	1788	31	2415
	B	B	B	B	B	B	B	B	B	B	C	B
	47.9	36.6	43.6	17.5	56.1	23.8	40.4	50.6	43.9	34.9	1.0	47.1
OREGON	3358	2767	3511	895	4629	2007	2246	4023	3488	2794	15	2800
	B	B	B	B	A	B	B	A	B	B	C	B
	48.7	40.1	48.0	13.0	67.1	24.1	33.1	30.3	50.3	40.6	0.2	40.6
PENNSYLVANIA	3477	2546	3529	1257	4186	2118	2847	3859	3449	2437	60	3006
	A	B	A	B	A	B	B	A	A	B	D	A
	48.7	35.6	47.4	17.8	58.8	29.7	39.9	54.4	48.3	41.1	0.8	42.1
RHODE ISLAND	240	143	187	62	254	109	273	226	187	157	1	244
	D	D	D	C	D	C	D	B	D	D	C	D
	54.1	39.7	39.7	13.2	53.3	23.1	47.2	47.8	34.5	33.3	0.3	51.8

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL TO		
0 8	10 8	A	
10 8	20 8	B	
20 8	30 8	C	
30 8		D	

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT - CY 1979
(8 of 17)

STATE	VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT			ILS RECEIVING EQUIPMENT				
	360 CH	720 CH	2+ SYS	NO COMM	4096 CODE	ALT ENC	NO TRANS	LOC	MKER DEC	GLIDE SLOPE	MLS	NO ILS
WASHINGTON												
ESTIMATED POPULATION	4077	2443	3246	1659	4319	985	3742	3511	3058	2304	1	4388
% STANDARD ERROR	A	B	B	B	A	B	A	A	B	B	D	A
ESTIMATED % OF STATE	52.1	31.2	41.5	21.2	55.2	12.4	47.8	44.9	39.1	29.4	0.0	56.1
WEST VIRGINIA												
ESTIMATED POPULATION	659	549	684	146	876	492	469	839	740	625	8	484
% STANDARD ERROR	C	C	C	D	C	C	C	C	C	C	C	C
ESTIMATED % OF STATE	49.3	41.1	51.2	11.0	65.5	36.2	35.1	62.7	55.4	46.8	0.6	36.2
WISCONSIN												
ESTIMATED POPULATION	2401	1427	2007	1171	2662	1004	2442	2290	2077	1664	14	2575
% STANDARD ERROR	B	B	B	B	B	B	B	B	B	B	D	B
ESTIMATED % OF STATE	50.9	27.9	39.3	22.9	52.1	19.7	47.9	44.8	40.6	32.6	0.3	50.4
WYOMING												
ESTIMATED POPULATION	460	413	502	166	756	304	476	548	438	486	0	678
% STANDARD ERROR	C	C	C	D	C	C	C	C	C	C	A	C
ESTIMATED % OF STATE	49.3	30.9	37.6	12.4	56.5	22.5	35.6	41.0	32.8	36.3	0.0	50.7
PUERTO RICO												
ESTIMATED POPULATION	397	148	222	22	241	29	270	244	187	198	2	267
% STANDARD ERROR	C	D	C	D	C	C	D	C	D	C	D	D
ESTIMATED % OF STATE	75.3	28.1	42.2	4.3	45.7	5.5	51.2	46.3	35.4	37.5	0.4	50.7
OTHER U.S. TERRITORIES												
ESTIMATED POPULATION	162	62	79	72	161	38	133	103	91	86	4	188
% STANDARD ERROR	D	D	D	D	D	C	D	D	D	D	D	D
ESTIMATED % OF STATE	56.5	21.6	27.5	25.0	56.1	13.3	46.4	36.1	31.7	30.1	1.5	45.6
FOREIGN												
ESTIMATED POPULATION	562	525	630	46	685	411	223	872	843	713	0	234
% STANDARD ERROR	C	C	C	D	B	C	D	B	B	B	A	C
ESTIMATED % OF STATE	38.9	36.3	43.6	3.2	61.2	28.4	15.4	60.3	58.3	45.3	0.0	16.2

STANDARD ERROR		CODE
GREATER THAN	LESS THAN OR EQUAL TO	
0 %	10 %	A
10 %	20 %	B
20 %	30 %	C
30 %		D

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT - CY 1979
(9 of 17)

STATE		VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT				ILS RECEIVING EQUIPMENT			
360 CH	720 CH	24 SYS	NO COMM	4096 CODE	ALT ENC	NO TRANS	LOC	MKR BEC	GLIDE SLOPE	MLS C	NC ILS		
127117	87278	114095	41670	146101	63067	101963	129092	114312	55845	792	113603		
A	A	A	A	A	A	A	A	A	A	C	A		
51.2	35.2	46.0	16.8	58.9	25.4	41.1	52.0	46.1	38.6	0.3	45.8		

NOTE : C COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

STANDARD ERROR	CODE
GREATER THAN	LESS THAN
OR	EQUAL TO
0 %	10 %
10 %	20 %
20 %	30 %
30 %	D

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT - CY 1979
(10 of 17)

STATE	NAVIGATION EQUIPMENT											
	VOR 100CH	VOR 200CH	2+ RCVR	ADF	DME	RNAV	LRNAV	AUTOPLT	RADAR ALT	WTHR RADAR	NU NAVEG	
ALABAMA	ESTIMATED POPULATION	811	1339	1548	1505	853	406	14	1086	259	412	639
	% STANDARD ERROR	C	B	B	B	B	C	D	B	D	C	C
	ESTIMATED % OF STATE	27.9	46.1	53.3	51.8	29.4	14.0	0.5	37.4	8.9	14.2	22.0
ALASKA	ESTIMATED POPULATION	3099	2110	1470	3097	525	43	12	325	53	26	1687
	% STANDARD ERROR	A	B	B	A	C	D	D	C	C	C	B
	ESTIMATED % OF STATE	44.9	30.6	21.3	44.9	7.6	0.6	0.2	4.7	0.6	0.4	24.5
ARIZONA	ESTIMATED POPULATION	1680	2649	2598	2170	1283	259	52	1336	297	144	1116
	% STANDARD ERROR	B	B	B	B	B	D	D	B	D	C	B
	ESTIMATED % OF STATE	31.2	49.2	48.2	40.3	23.8	4.8	1.0	24.8	5.5	2.7	20.7
ARKANSAS	ESTIMATED POPULATION	777	1241	1387	1480	934	204	36	947	108	156	1153
	% STANDARD ERROR	C	B	B	B	B	D	D	B	D	C	B
	ESTIMATED % OF STATE	25.1	40.0	44.7	47.7	30.1	6.6	1.2	30.5	3.5	6.3	37.2
CALIFORNIA	ESTIMATED POPULATION	11916	16155	18233	15223	8722	1637	289	9740	1340	1015	5505
	% STANDARD ERROR	A	A	A	A	A	B	D	A	B	E	A
	ESTIMATED % OF STATE	35.9	48.7	55.0	45.9	26.3	4.5	0.9	29.4	4.0	3.1	17.8
COLORADO	ESTIMATED POPULATION	1905	2392	2479	2540	1448	428	41	1637	260	258	1213
	% STANDARD ERROR	B	B	B	B	B	C	D	B	C	C	B
	ESTIMATED % OF STATE	36.9	46.3	48.0	49.2	28.1	8.3	0.8	31.7	5.0	5.0	23.5

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL TO		
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT - CY 1979
(11 of 17)

STATE	NAVIGATION EQUIPMENT										NO NAVEG
	VOR 100CH	VOR 200CH	2° RCVR	ADF	DME	RNAV	LRNAV	AUTOPLT	RADAR ALT	WTHR RADAR	
CONNECTICUT	755	745	971	961	470	107	14	485	85	86	424
	ESTIMATED POPULATION	C	C	B	C	D	D	C	D	C	C
	± STANDARD ERROR	39.5	40.1	50.8	24.6	5.6	0.8	25.4	4.5	4.5	22.2
DELAWARE	361	308	482	482	254	80	16	345	102	83	200
	ESTIMATED POPULATION	D	C	C	D	D	D	D	D	D	D
	± STANDARD ERROR	41.9	35.7	55.9	55.9	9.3	2.0	40.0	11.5	5.7	23.3
DC	18	62	60	78	48	41	5	60	35	33	14
	ESTIMATED POPULATION	D	D	D	D	D	D	D	D	C	D
	± STANDARD ERROR	19.2	63.5	80.4	49.8	42.8	6.0	62.0	36.2	34.0	15.3
FLORIDA	5173	5625	6731	6456	3916	747	32	3811	609	996	2412
	ESTIMATED POPULATION	A	A	A	A	B	D	A	B	B	A
	± STANDARD ERROR	40.2	43.7	52.3	50.2	30.5	0.3	29.6	4.7	7.7	18.8
GEORGIA	1752	2060	2244	2013	1394	360	103	1355	229	406	1016
	ESTIMATED POPULATION	B	B	B	B	C	D	B	C	C	B
	± STANDARD ERROR	34.6	43.0	47.3	42.0	29.1	2.2	28.3	4.8	8.5	21.2
HAWAII	248	229	243	246	161	3	3	52	3	7	134
	ESTIMATED POPULATION	D	D	D	D	D	D	D	D	D	D
	± STANDARD ERROR	38.8	35.8	38.1	38.4	25.2	0.6	8.2	0.5	1.2	21.0
IDAHO	980	1001	1070	1152	503	124	16	631	64	53	687
	ESTIMATED POPULATION	B	B	B	C	D	D	C	D	D	B
	± STANDARD ERROR	36.0	36.8	39.3	42.4	18.5	0.6	23.2	2.4	2.0	25.3

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL TO		
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT - CY 1979
(12 of 17)

STATE	NAVIGATION EQUIPMENT										NG MAVED
	VDR 100CH	VDR 200CH	2+ RCVR	ADF	OME	RNAV	LNAV	AUTOPLT	RAVAR ALT	WTHR RADAR	
ILLINOIS											
	ESTIMATED POPULATION	3366	4814	5144	4797	3220	999	95	3317	855	829
	% STANDARD ERROR	B	A	A	A	A	B	D	A	B	B
INDIANA											
	ESTIMATED POPULATION	2146	2432	2989	2846	1409	366	30	1787	369	391
	% STANDARD ERROR	B	B	B	B	B	C	D	B	C	B
IOWA											
	ESTIMATED POPULATION	1631	1819	2009	2021	1116	218	16	1392	201	221
	% STANDARD ERROR	B	B	B	B	B	D	D	B	D	B
KANSAS											
	ESTIMATED POPULATION	1261	2194	2261	2160	1299	313	6	1646	152	136
	% STANDARD ERROR	B	B	B	B	B	D	D	B	D	B
KENTUCKY											
	ESTIMATED POPULATION	809	600	884	912	544	255	45	504	199	252
	% STANDARD ERROR	C	C	B	B	C	D	D	C	D	C
LOUISIANA											
	ESTIMATED POPULATION	756	1982	1830	2286	1059	375	233	874	232	212
	% STANDARD ERROR	C	B	B	B	D	C	C	B	C	B
MAINE											
	ESTIMATED POPULATION	637	332	424	433	157	14	1	143	16	25
	% STANDARD ERROR	C	D	D	C	D	D	D	D	D	C

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL 1/1		
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT - CY 1979
(13 of 17)

STATE	NAVIGATION EQUIPMENT										
	VOR 100CH	VOR 200CH	2° RCVR	ADF	DME	RNAV	LNAV	AUTOPLT	RADAR ALT	WTHR RADAR	NO NAVEQ
MARYLAND											
ESTIMATED POPULATION	1195	1310	1546	1399	713	191	23	856	173	132	416
% STANDARD ERROR	B	B	B	B	C	D	D	C	D	C	C
ESTIMATED % OF STATE	41.6	45.6	53.8	48.6	24.8	6.7	0.8	29.8	6.0	4.7	14.5
MASSACHUSETTS											
ESTIMATED POPULATION	1580	1361	1625	1439	576	219	22	784	136	122	392
% STANDARD ERROR	B	B	B	B	C	D	D	C	D	D	C
ESTIMATED % OF STATE	49.7	42.8	51.1	45.3	18.1	6.5	0.7	24.7	4.3	3.8	12.3
MICHIGAN											
ESTIMATED POPULATION	3172	4080	4477	4277	2027	777	36	2491	468	528	1396
% STANDARD ERROR	B	A	A	A	B	C	D	B	C	C	B
ESTIMATED % OF STATE	37.2	47.9	52.6	50.2	23.8	9.1	0.4	29.3	5.5	6.2	16.4
MINNESOTA											
ESTIMATED POPULATION	2453	1993	2266	2584	1495	253	110	1474	338	334	1599
% STANDARD ERROR	B	B	B	B	B	D	D	B	C	C	B
ESTIMATED % OF STATE	40.6	32.9	37.5	41.4	24.7	4.2	1.8	24.4	5.6	5.5	26.4
MISSISSIPPI											
ESTIMATED POPULATION	720	1019	1050	1032	445	157	38	639	109	168	774
% STANDARD ERROR	C	B	B	B	C	D	D	C	D	C	B
ESTIMATED % OF STATE	27.8	39.4	40.6	39.9	25.1	6.1	1.5	24.7	4.2	6.2	29.9
MISSOURI											
ESTIMATED POPULATION	1815	2413	2658	2518	1362	350	18	1385	217	325	1160
% STANDARD ERROR	B	B	B	B	B	C	D	B	D	C	B
ESTIMATED % OF STATE	36.1	48.0	52.9	50.1	27.1	7.0	0.4	27.6	4.3	6.5	23.5
MONTANA											
ESTIMATED POPULATION	1344	807	1025	1147	478	125	4	589	132	84	700
% STANDARD ERROR	B	C	B	B	C	D	D	C	D	C	C
ESTIMATED % OF STATE	51.4	30.9	39.2	43.9	18.3	4.8	0.2	22.5	5.1	3.2	26.8

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN		
-----	-----		
OR	EQUAL TO		
-----	-----		
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT - CY 1979
(14 of 17)

STATE	NAVIGATION EQUIPMENT										
	VOR 100CH	VOR 200CH	2° ACVR	ADF	DME	RNAV	LRNAV	AUTOPLT	RADAR ALT	MTR RADAR	MU NAVEG
NEBRASKA	ESTIMATED POPULATION	904	1124	1062	1093	572	131	55	712	100	767
	% STANDARD ERROR	C	B	B	B	C	D	D	C	D	B
	ESTIMATED % OF STATE	31.1	38.6	34.5	37.5	19.6	4.5	1.9	24.4	3.5	27.0
NEVADA	ESTIMATED POPULATION	838	879	1335	1119	749	268	27	709	190	296
	% STANDARD ERROR	C	B	B	B	B	D	D	C	D	C
	ESTIMATED % OF STATE	41.6	43.6	66.2	55.5	37.1	13.5	1.4	35.1	9.4	14.7
NEW HAMPSHIRE	ESTIMATED POPULATION	488	550	704	619	563	157	5	371	135	365
	% STANDARD ERROR	C	C	C	C	D	D	D	D	C	C
	ESTIMATED % OF STATE	37.7	42.6	54.7	47.9	28.1	12.2	0.4	28.7	10.5	28.2
NEW JERSEY	ESTIMATED POPULATION	1443	2434	2472	2111	1321	295	106	1380	271	711
	% STANDARD ERROR	B	B	B	B	B	D	D	B	C	B
	ESTIMATED % OF STATE	33.1	55.8	56.6	48.4	30.5	6.8	2.4	31.6	6.2	16.3
NEW MEXICO	ESTIMATED POPULATION	873	1144	1325	1473	779	322	18	891	120	399
	% STANDARD ERROR	C	B	B	B	C	D	D	C	D	B
	ESTIMATED % OF STATE	35.3	46.2	53.5	59.5	31.5	13.0	0.8	36.0	4.9	16.1
NEW YORK	ESTIMATED POPULATION	3015	3210	3968	3417	1956	617	213	2071	551	1759
	% STANDARD ERROR	B	B	A	B	B	C	C	B	C	B
	ESTIMATED % OF STATE	40.3	42.9	53.1	45.7	26.2	8.5	2.9	27.7	7.4	23.5
NORTH CAROLINA	ESTIMATED POPULATION	1952	2038	2400	2561	1363	562	46	1659	379	939
	% STANDARD ERROR	B	B	B	B	B	C	D	B	C	B
	ESTIMATED % OF STATE	40.3	42.0	49.5	52.8	28.1	11.6	1.0	34.2	7.8	19.4

STANDARD ERROR		CODE	
GREATER THAN	-----	-----	-----
LESS THAN	-----	-----	-----
OR	-----	-----	-----
EQUAL TO	-----	-----	-----
0 %	-----	A	-----
10 %	-----	B	-----
20 %	-----	C	-----
30 %	-----	D	-----

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT - CY 1979
(15 of 17)

STATE	NAVIGATION EQUIPMENT										
	VOR 100CH	VOR 200CH	2° RCVR	ADF	DME	RNAV	LRNAV	AUTOPLT	RADAR ALT	WMM RADAR	NU NAVEQ
NORTH DAKOTA ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF STATE	697 C 40.1	482 C 27.7	516 C 29.8	524 C 30.2	302 D 17.4	114 D 6.7	2 D 0.1	322 D 16.6	74 D 4.3	43 C 2.5	629 C 36.2
OHIO ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF STATE	3499 B 39.0	4199 A 46.8	4868 A 54.3	4435 A 49.5	1864 B 20.8	603 C 6.7	57 D 0.6	2550 B 28.4	417 C 4.7	558 E 6.2	1651 B 18.4
OKLAHOMA ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF STATE	1864 B 36.4	2292 B 44.7	2298 B 44.8	2420 B 47.2	1200 B 23.4	398 C 7.8	145 D 2.8	1707 B 33.3	473 C 9.2	402 C 7.9	1025 B 20.0
OREGON ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF STATE	2519 B 34.5	3479 B 50.4	3576 A 51.8	3548 A 51.4	2114 B 30.6	528 C 7.7	56 D 0.8	2212 B 32.1	383 C 5.6	239 C 3.5	1123 B 16.3
PENNSYLVANIA ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF STATE	2404 B 33.7	3273 B 45.8	3853 A 53.9	3224 B 45.1	2053 B 28.7	569 B 8.0	46 D 0.7	2221 B 31.1	428 C 6.0	625 E 8.6	1544 B 21.6
RHODE ISLAND ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF STATE	238 D 50.3	176 D 37.3	201 D 42.6	176 D 37.4	44 D 17.9	22 D 4.8	8 D 1.9	107 D 22.7	16 D 3.5	25 C 5.5	72 C 15.4
SOUTH CAROLINA ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF STATE	520 C 26.4	997 B 50.5	1003 B 50.9	1012 B 51.3	548 C 27.8	266 D 13.5	10 D 3.5	478 C 34.4	103 C 5.4	225 C 11.4	448 C 22.7

STANDARD ERROR		CODE
GREATER THAN	LESS THAN OR EQUAL TO	
0 %	10 %	A
10 %	20 %	B
20 %	30 %	C
30 %		D

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT - CY 1979
(16 of 17)

STATE	NAVIGATION EQUIPMENT										NO NAVEQ
	VOR 100CH	VOR 200CH	2° RCVR	ADF	DME	RNAV	LRNAV	AUTOPLT	RADIA ALT	WTM RADAR	
SOUTH DAKOTA	ESTIMATED POPULATION	422	589	605	584	343	57	2	404	43	32
	% STANDARD ERROR	C	C	C	C	D	D	D	D	C	C
	ESTIMATED % OF STATE	36.8	34.8	35.8	34.5	20.3	3.4	0.1	23.9	2.6	1.9
TENNESSEE	ESTIMATED POPULATION	932	1552	1559	1496	861	302	14	771	217	357
	% STANDARD ERROR	C	B	B	B	B	C	D	B	C	C
	ESTIMATED % OF STATE	31.7	52.7	52.8	50.8	19.3	10.3	0.5	26.2	7.4	12.2
TEXAS	ESTIMATED POPULATION	6599	9924	10628	10992	6610	2574	407	7797	1692	2074
	% STANDARD ERROR	A	A	A	A	A	B	C	A	A	A
	ESTIMATED % OF STATE	32.9	49.5	53.0	54.8	33.0	12.8	2.0	38.9	8.4	10.3
UTAH	ESTIMATED POPULATION	764	729	977	795	401	118	11	907	62	56
	% STANDARD ERROR	C	C	B	C	C	D	D	C	D	C
	ESTIMATED % OF STATE	42.4	40.5	56.2	41.9	22.3	6.6	0.6	28.2	3.5	3.2
VERMONT	ESTIMATED POPULATION	184	216	269	237	137	23	3	162	23	31
	% STANDARD ERROR	D	D	D	D	D	D	D	D	D	D
	ESTIMATED % OF STATE	37.1	43.6	54.1	47.7	27.6	4.7	0.7	32.6	4.7	6.3
VIRGINIA	ESTIMATED POPULATION	1013	1430	1720	1684	883	145	1	943	114	141
	% STANDARD ERROR	B	B	B	B	B	D	D	B	D	C
	ESTIMATED % OF STATE	31.8	51.1	53.9	52.8	27.7	4.6	0.0	30.2	3.6	5.1
WASHINGTON	ESTIMATED POPULATION	2695	3487	3608	3395	959	147	27	1392	197	101
	% STANDARD ERROR	B	B	B	B	B	D	D	B	C	B
	ESTIMATED % OF STATE	34.4	44.5	46.1	43.4	12.3	1.9	0.3	17.8	2.5	1.3

STANDARD ERROR		CODE	
GREATER THAN	-----	-----	-----
LESS THAN	-----	-----	-----
OR	-----	-----	-----
EQUAL TO	-----	-----	-----
0 %	-----	-----	-----
10 %	-----	-----	-----
20 %	-----	-----	-----
30 %	-----	-----	-----
40 %	-----	-----	-----

TABLE 2-13 GENERAL AVIATION AVIONICS EQUIPMENT BY STATE OF BASED AIRCRAFT - CY 1979
(17 of 17)

STATE	NAVIGATION EQUIPMENT										
	VOR 100CH	VOR 200CH	2+ RCVR	ADF	DME	RNAV	L RNAV	AUTOPLT	RADAR ALT	WXR RACER	NO NAVEO
WEST VIRGINIA											
	ESTIMATED POPULATION & STANDARD ERROR	734 C	724 C	727 C	566 C	256 D	4 D	537 C	116 D	142 D	199 D
	ESTIMATED % OF STATE	54.9	54.2	54.3	42.4	19.2	0.3	40.2	8.7	10.8	14.9
WISCONSIN											
	ESTIMATED POPULATION & STANDARD ERROR	1936 B	2114 B	2101 B	1130 B	274 D	11 D	1255 B	253 D	283 C	1348 B
	ESTIMATED % OF STATE	37.9	41.4	41.1	22.1	5.4	0.2	24.6	9.0	5.4	26.4
WYOMING											
	ESTIMATED POPULATION & STANDARD ERROR	461 C	589 C	632 C	588 C	403 C	120 D	6 D	315 D	75 C	180 D
	ESTIMATED % OF STATE	34.5	44.1	47.3	44.0	30.1	9.0	0.5	23.6	5.4	13.5
PUERTO RICO											
	ESTIMATED POPULATION & STANDARD ERROR	171 D	236 D	265 D	249 C	87 D	2 D	0 A	99 D	63 C	101 C
	ESTIMATED % OF STATE	32.6	44.8	50.2	51.1	16.5	0.5	0.0	18.9	0.0	19.2
OTHER U.S. TERRITORIES											
	ESTIMATED POPULATION & STANDARD ERROR	145 D	82 D	61 D	232 D	34 D	10 D	1 D	52 D	18 D	18 D
	ESTIMATED % OF STATE	50.4	28.7	28.2	80.8	12.0	3.5	0.5	18.3	2.0	6.3
FOREIGN											
	ESTIMATED POPULATION & STANDARD ERROR	417 C	621 C	671 B	890 A	374 C	115 D	78 D	427 C	211 C	56 D
	ESTIMATED % OF STATE	28.9	42.9	46.4	61.8	25.9	8.0	5.4	43.4	11.3	3.5
TOTAL											
	ESTIMATED POPULATION & STANDARD ERROR	89219 A	111785 A	123098 A	119260 A	65873 A	18647 A	2852 A	73019 A	14505 A	51357 A
	ESTIMATED % OF POP	36.0	45.1	49.6	48.1	26.6	7.5	1.1	29.4	5.8	20.7

NOTE : COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

STANDARD ERROR	CODE

GREATER THAN	-----
LESS THAN	-----
OR	-----
EQUAL TO	-----
0 %	A
10 %	B
20 %	C
30 %	D

TABLE 2-14 GENERAL AVIATION AVIONICS EQUIPMENT BY REGION OF BASED AIRCRAFT - CY 1979
(1 of 6)

REGION	VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT			ILS RECEIVING EQUIPMENT					
	360 CH	720 CH	2+ SYS	NU COMM	4096 CODE	ALT ENC	NO TRANS	LOC	MKR BEC	CLIDE SLOPE	MLS	NC ILS	
ALASKAN													
ESTIMATED POPULATION	4708	1635	1584	1038	1624	292	5348	1789	1383	1244	1	5202	
% STANDARD ERROR	A	B	B	B	B	C	A	B	B	B	0	A	
ESTIMATED % OF REGION	68.3	23.7	23.0	15.1	23.5	4.2	80.6	25.9	20.1	18.0	0.0	75.4	
CENTRAL													
ESTIMATED POPULATION	7901	5617	7212	3478	9631	3297	6889	8247	7039	6030	36	8036	
% STANDARD ERROR	A	A	A	A	A	A	A	A	A	A	0	A	
ESTIMATED % OF REGION	47.4	33.7	43.3	20.9	57.8	19.8	41.3	49.5	42.2	36.2	0.2	48.2	
EASTERN													
ESTIMATED POPULATION	14826	9370	13731	4355	16841	8198	10604	15711	14080	11767	159	11195	
% STANDARD ERROR	A	A	A	A	A	A	A	A	A	A	0	A	
ESTIMATED % OF REGION	54.2	34.3	50.2	15.9	61.6	30.6	38.8	57.4	51.5	43.0	0.6	40.9	
EUROPEAN													
ESTIMATED POPULATION	234	146	213	21	264	179	127	291	282	219	0	100	
% STANDARD ERROR	0	0	C	0	C	C	0	C	C	C	A	0	
ESTIMATED % OF REGION	60.3	37.7	55.0	5.6	68.1	46.1	32.7	75.0	72.6	56.3	0.0	25.8	
GREAT LAKES													
ESTIMATED POPULATION	23160	14517	20476	7493	23269	9823	18419	22891	20099	14012	165	19374	
% STANDARD ERROR	A	A	A	A	A	A	A	A	A	A	C	A	
ESTIMATED % OF REGION	53.1	33.3	46.9	17.2	57.9	22.5	42.2	52.5	46.1	36.7	0.4	44.9	

STANDARD ERROR	CODE
GREATER THAN	-----
LESS THAN	-----
OR	-----
EQUAL TO	-----
0 %	10 %
10 %	20 %
20 %	30 %
30 %	40 %

TABLE 2-14 GENERAL AVIATION AVIONICS EQUIPMENT BY REGION OF BASED AIRCRAFT - CY 1979
(2 of 6)

REGION	VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT			ILS RECEIVING EQUIPMENT				
	360 CH	720 CH	2+ SYS	NO COMM	4096 CODE	ALT ENC	NO TRANS	LOC	MKER BEC	CLIDE SLOPE	MLS	NO ILS
NEW ENGLAND												
	ESTIMATED POPULATION	5109	2347	3930	1527	4723	2413	4014	4239	3851	3134	14
	% STANDARD ERROR	A	B	A	B	A	B	A	A	A	B	D
ESTIMATED % OF REGION	59.3	27.3	45.6	17.7	54.8	28.0	46.6	49.2	44.7	35.4	0.2	46.3
NORTHEASTERN												
	ESTIMATED POPULATION	8961	5986	7637	3025	10391	3442	7293	8628	7466	5843	28
	% STANDARD ERROR	A	A	A	A	A	A	A	A	A	A	D
ESTIMATED % OF REGION	50.8	33.9	43.3	17.1	58.9	19.5	41.3	48.9	42.3	33.1	0.2	46.7
PACIFIC												
	ESTIMATED POPULATION	387	293	272	132	484	58	313	337	308	279	0
	% STANDARD ERROR	C	D	D	D	C	C	D	C	D	D	A
ESTIMATED % OF REGION	46.9	35.5	33.0	16.1	58.7	7.1	38.0	40.9	37.4	33.8	0.0	53.2
ROCKY MOUNTAIN												
	ESTIMATED POPULATION	7498	4834	5871	2531	7786	2801	6714	6312	5524	4696	5
	% STANDARD ERROR	A	A	A	B	A	B	A	A	A	A	D
ESTIMATED % OF REGION	52.2	33.7	40.9	17.6	54.3	19.5	46.8	44.0	38.5	32.7	0.0	54.4
SOUTHERN												
	ESTIMATED POPULATION	17966	12379	15812	5936	21573	9060	13505	8799	16777	14312	28
	% STANDARD ERROR	A	A	A	A	A	A	A	A	A	A	D
ESTIMATED % OF REGION	50.4	34.7	44.3	16.6	60.5	25.4	37.9	5.7	47.0	40.1	0.1	44.1
SOUTHWESTERN												
	ESTIMATED POPULATION	15759	14242	16908	6539	20652	10032	14663	11111	16468	14219	126
	% STANDARD ERROR	A	A	A	A	A	A	A	A	A	A	D
ESTIMATED % OF REGION	44.6	40.3	47.6	18.5	58.5	28.4	41.5	53.0	46.6	40.3	0.4	45.6

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL TO		
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-14 GENERAL AVIATION AVIONICS EQUIPMENT BY REGION OF BASED AIRCRAFT - CY 1979
(3 of 6)

REGION	VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT				ILS RECEIVING EQUIPMENT			
	360 CH	720 CH	2+ SYS	NO COMM	4096 CODE	ALT ENC	NO TRANS	LOC	MKER BEC	GLIDE SLOPE	MLS	AO ILS
WESTERN	ESTIMATED POPULATION	21613	15343	20557	5099	26867	12596	13729	22874	20695	17449	195
	% STANDARD ERROR	A	A	A	A	A	A	A	A	A	A	0
	ESTIMATED % OF REGION	53.3	37.8	50.7	12.6	66.2	31.0	33.8	56.4	51.0	43.0	0.5
TOTAL	ESTIMATED POPULATION	127117	87278	114095	41670	146101	63067	101903	129092	114312	95845	792
	% STANDARD ERROR	A	A	A	A	A	A	A	A	A	A	C
	ESTIMATED % OF POP	51.2	35.2	46.0	16.8	58.9	25.4	41.1	52.0	46.1	33.6	0.3

NOTE : COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

STANDARD ERROR				CODE	
GREATER THAN				-----	
LESS THAN					
OR					
EQUAL TO					
0 %	10 %			A	
10 %	20 %			B	
20 %	30 %			C	
30 %				D	

TABLE 2-14 GENERAL AVIATION AVIONICS EQUIPMENT BY REGION OF BASED AIRCRAFT - CY 1979
(4 of 6)

REGION	VOR 100CH	VOR 200CH	2+ RCVR	ADF	NAVIGATION EQUIPMENT				RADAR ALT	WTHR RADAR	MU NAVEQ
					DME	RNAV	LRNAV	AUTOPLT			
ALASKA											
ESTIMATED POPULATION	3099	2110	1470	3097	525	43	12	325	53	26	1687
% STANDARD ERROR	A	B	B	A	C	D	D	C	D	C	B
ESTIMATED % OF REGION	44.9	30.6	21.3	44.9	7.6	0.6	0.2	4.7	0.8	0.4	24.5
CENTRAL											
ESTIMATED POPULATION	5613	7551	7992	7794	4350	1013	96	5137	671	816	3832
% STANDARD ERROR	A	A	A	A	A	B	U	A	B	B	A
ESTIMATED % OF REGION	33.7	45.3	47.9	46.8	26.1	6.1	0.6	30.8	4.0	4.3	23.0
EASTERN											
ESTIMATED POPULATION	9866	12964	14829	13127	7797	2198	418	8436	1793	1901	5481
% STANDARD ERROR	A	A	A	A	A	B	B	A	B	A	A
ESTIMATED % OF REGION	36.1	47.4	54.2	48.0	28.5	8.0	1.5	30.8	6.6	7.0	26.0
EUROPEAN											
ESTIMATED POPULATION	161	194	206	303	172	51	52	227	82	121	36
% STANDARD ERROR	D	C	C	C	C	D	D	D	D	C	D
ESTIMATED % OF REGION	41.5	50.0	53.2	78.0	44.5	13.3	13.4	58.6	21.2	31.1	9.3
GREAT LAKES											
ESTIMATED POPULATION	16573	19456	21880	20962	11207	3275	342	12876	2704	2926	8524
% STANDARD ERROR	A	A	A	A	A	A	C	A	A	A	A
ESTIMATED % OF REGION	38.0	44.6	50.2	48.1	25.7	7.5	0.8	29.5	6.2	6.1	19.7
NEW ENGLAND											
ESTIMATED POPULATION	3884	3403	4199	3868	1790	544	56	2054	414	350	1731
% STANDARD ERROR	A	B	A	A	B	C	D	B	C	C	B
ESTIMATED % OF REGION	45.1	39.5	48.7	44.9	20.8	6.3	0.7	23.9	4.8	4.1	20.1

STANDARD ERROR		CODE
GREATER THAN	LESS THAN OR EQUAL TO	
0 %	10 %	A
10 %	20 %	B
20 %	30 %	C
30 %		D

TABLE 2-14 GENERAL AVIATION AVIONICS EQUIPMENT BY REGION OF BASED AIRCRAFT - CY 1979
(5 of 6)

REGION	NAVIGATION EQUIPMENT										
	VOR 100CH	VOR 200CH	2+ RCVR	ADF	DME	RNAV	LRNAV	AUTCPLT	PADAR ALT	WTHR RADAR	NO NAVEQ
NORTHWESTERN	ESTIMATED POPULATION	6219	7991	8281	8142	3598	799	102	4258	666	417
	% STANDARD ERROR	A	A	A	A	A	B	D	A	B	A
	ESTIMATED % OF REGION	35.2	45.3	46.9	46.1	20.4	4.5	0.6	24.1	3.8	2.4
PACIFIC	ESTIMATED POPULATION	342	264	293	433	215	7	29	87	13	138
	% STANDARD ERROR	C	D	D	C	D	D	D	D	D	D
	ESTIMATED % OF REGION	41.5	32.1	35.5	52.6	26.1	0.9	3.6	10.6	1.6	4.4
ROCKY MOUNTAIN	ESTIMATED POPULATION	5796	5591	6240	6142	3376	965	69	3777	645	555
	% STANDARD ERROR	A	A	A	A	A	B	D	A	B	A
	ESTIMATED % OF REGION	40.4	39.0	43.5	42.8	23.5	6.7	0.5	26.3	4.5	3.1
SOUTHERN	ESTIMATED POPULATION	13001	15706	17974	17597	10318	3096	305	10756	2125	3384
	% STANDARD ERROR	A	A	A	A	A	A	C	A	A	A
	ESTIMATED % OF REGION	36.5	44.0	50.4	49.3	28.9	8.7	0.9	30.2	6.0	5.5
SOUTHWESTERN	ESTIMATED POPULATION	10995	16800	17669	18903	10448	3911	842	12462	2666	3176
	% STANDARD ERROR	A	A	A	A	A	A	B	A	A	A
	ESTIMATED % OF REGION	31.1	47.6	50.0	53.5	30.2	11.1	2.4	35.3	7.6	5.0
WESTERN	ESTIMATED POPULATION	14435	19684	22164	18513	10755	2165	369	11785	1828	1255
	% STANDARD ERROR	A	A	A	A	A	B	C	A	B	A
	ESTIMATED % OF REGION	35.6	48.5	54.6	45.6	26.5	5.3	0.9	29.0	4.5	3.2

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL TO		
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-14 GENERAL AVIATION AVIONICS EQUIPMENT BY REGION OF BASED AIRCRAFT - CY 1979
(6 of 6)

REGION	NAVIGATION EQUIPMENT										NO NAVEG
	VOR 100CH	VOR 200CH	2+ RCVR	ADF	OME	RNAV	LRNAV	AUTCPLT	RADAR ALT	WTMR RADAR	
TOTAL	89219	111785	123098	119260	65873	18647	2852	73019	14505	16219	91357
ESTIMATED POPULATION	36.0	45.1	49.6	48.1	26.6	7.5	1.1	29.4	5.8	6.5	20.7
ESTIMATED % OF POP											

NOTE : COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

STANDARD ERROR		CODE	
GREATER THAN		LESS THAN OR EQUAL TO	
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-15 GENERAL AVIATION AVIONICS EQUIPMENT BY PRIMARY USE - CY 1979 (1 of 4)

PRIMARY USE	VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT			ILS RECEIVING EQUIPMENT			
	360 CH	720 CH	2+ SYS	NO COMB	4096 CODE	ALT ENC	NO TRANS	LOC	PRER SEC	CLIDE SLOPE	MLS NO ILS
EXECUTIVE ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF USE	3838 A 28.1	9978 A 73.2	10883 A 79.8	664 B 4.9	12758 A 93.6	10755 A 78.9	1262 B 9.3	12274 A 50.0	11985 A 87.9	11815 A 66.6	224 C 1.7
											1704 B 12.5
BUSINESS ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF USE	25799 A 52.0	25612 A 51.6	36454 A 73.4	1548 B 3.1	44050 A 88.7	24210 A 48.8	6479 A 13.0	40191 A 80.5	37528 A 76.4	8 A 17.3	203 C 0.4
											9151 A 18.4
PERSONAL ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF USE	63155 A 66.9	24941 A 26.4	41489 A 43.9	13747 A 14.6	51781 A 54.8	13543 A 14.3	46071 A 48.8	43022 A 45.6	37565 A 35.8	28457 A 28.2	91 O 0.1
											51540 A 54.6
AERIAL APPLICATION ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF USE	1265 B 16.9	371 C 5.0	315 C 4.2	6413 A 85.6	529 C 7.1	124 O 1.7	7477 A 99.8	381 C 5.1	314 C 4.2	237 C 3.2	0 A 0.0
											7384 A 101.2
INSTRUCTIONAL ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF USE	8304 A 53.7	7184 A 46.5	4980 A 32.2	688 B 4.5	10013 A 64.8	2445 B 15.9	5838 A 37.8	8290 A 93.6	5012 A 32.4	4713 A 30.5	1 C 0.0
											7470 A 48.3

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL TO		
C %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-15 GENERAL AVIATION AVIONICS EQUIPMENT BY PRIMARY USE - CY 1979 (2 of 4)

PRIMARY USE	VHF COMMUNICATIONS				TRANSPONDER EQUIPMENT				ILS RECEIVING EQUIPMENT			
	340 CH	720 CH	2+ SYS	NO COMM	4096 CODE	ALT ENC	NO TRANS	LQC	MKR BEC	GLIDE SLOPE	MLS	NO ILS
AIR TAXI												
ESTIMATED POPULATION	2928	6151	5930	20	7144	5029	1630	6767	6430	6150	53	2005
% STANDARD ERROR	A	A	A	D	A	A	B	A	A	A	C	A
ESTIMATED % OF USE	34.9	73.2	70.6	0.2	85.1	59.9	19.4	80.6	76.6	73.2	0.6	23.9
INDUSTRIAL/SPECIAL												
ESTIMATED POPULATION	1832	1227	1182	100	1752	648	1309	1523	1203	1018	0	1485
% STANDARD ERROR	B	B	B	D	B	C	B	B	B	B	A	B
ESTIMATED % OF USE	56.2	37.7	36.3	3.1	53.8	19.5	40.2	46.7	36.9	31.2	0.0	45.6
RENTAL												
ESTIMATED POPULATION	5223	7402	7368	507	10568	3961	2455	9094	7764	7276	102	3655
% STANDARD ERROR	A	A	A	C	A	A	B	A	A	A	D	B
ESTIMATED % OF USE	40.9	58.0	57.7	4.0	82.8	31.0	19.2	71.2	60.8	57.0	0.8	28.5
OTHER												
ESTIMATED POPULATION	2132	2696	2455	762	3300	1600	2251	3025	2478	2134	42	2514
% STANDARD ERROR	B	B	B	B	A	B	B	A	B	B	C	B
ESTIMATED % OF USE	40.7	51.5	46.9	14.6	63.0	30.6	43.0	57.8	47.3	40.8	0.8	48.0
INACTIVE												
ESTIMATED POPULATION	12658	2096	3506	16918	4560	1058	26817	4637	3931	2609	76	26334
% STANDARD ERROR	A	A	A	A	A	B	A	A	A	A	C	A
ESTIMATED % OF USE	33.6	5.6	9.3	44.9	12.1	2.8	71.2	12.3	10.4	6.9	0.2	65.5
TOTAL												
ESTIMATED POPULATION	127117	87278	114095	41670	146101	63063	101963	129092	114312	95845	792	113603
% STANDARD ERROR	A	A	A	A	A	A	A	A	A	A	C	A
ESTIMATED % OF POP	51.2	35.2	46.0	16.8	58.9	25.4	41.1	52.0	46.1	38.6	0.3	45.8

NOTE : COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

STANDARD ERROR		CODE	
GREATER THAN	-----		
LESS THAN	-----		
OR	-----		
EQUAL TO	-----		
0 %	10 %	A	
10 %	20 %	B	
20 %	30 %	C	
30 %		D	

TABLE 2-15 GENERAL AVIATION AVIONICS EQUIPMENT BY PRIMARY USE - CY 1979 (3 of 4)

PRIMARY USE	NAVIGATION EQUIPMENT										WTHR RADAR	NO NAVEQ
	VOR 100CH	VOR 200CH	2° RCVR	ADF	OME	RNAV	LRNAV	AUTOPLT	RADAR ALT			
EXECUTIVE ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF USE	3083 A 22.6	10349 A 75.9	11448 A 83.9	12361 A 90.6	11322 A 83.0	5601 A 41.1	1304 A 9.6	11350 A 83.2	6327 A 46.4	7545 A 56.2	780 B 5.7	
	18728 A 37.7	31384 A 63.2	39961 A 80.5	39180 A 78.9	26366 A 53.1	7079 A 14.3	472 C 1.0	28629 A 57.7	4035 A 8.1	4452 A 5.0	1562 B 4.0	
PERSONAL ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF USE	43445 A 46.0	39358 A 41.7	45000 A 47.7	39350 A 41.7	14409 A 15.3	2265 B 2.4	169 D 0.2	17755 A 18.8	1422 B 1.5	214 C 0.2	18370 A 15.5	
	408 C 5.4	448 C 6.0	351 C 4.7	357 C 4.8	85 D 1.1	12 D 0.2	12 D 0.2	107 D 1.4	5 D 0.1	14 D 0.2	7171 A 95.7	
INSTRUCTIONAL ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF USE	6691 A 43.3	8035 A 52.0	5327 A 34.5	5192 A 33.4	1804 B 11.7	307 D 2.0	3 D 0.0	1999 B 12.9	228 D 1.5	131 C 0.5	1346 B 8.7	
	1877 A 22.4	5880 A 70.0	6328 A 75.3	7731 A 92.0	5138 A 61.2	1402 B 15.7	222 C 2.6	4986 A 59.4	1231 B 14.7	1985 B 23.6	337 C 4.0	

STANDARD ERROR		CODE	
GREATER THAN	LESS THAN OR EQUAL TO	-----	
		0 %	A
10 %	20 %	30 %	B
20 %	30 %	40 %	C
30 %	40 %	50 %	D

TABLE 2-15 GENERAL AVIATION AVIONICS EQUIPMENT BY PRIMARY USE - CY 1979 (4 of 4)

PRIMARY USE	NAVIGATION EQUIPMENT										NO NAVEG
	VOR 100CH	VOR 200CH	2+ RCVR	ADF	DME	RNAV	LRNAV	AUTOPLT	RADAR ALT	WTR RADAR	
INDUSTRIAL/SPECIAL ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF USE	1127 8 34.6	1134 8 34.8	877 8 26.9	1467 8 45.0	613 C 18.8	106 D 3.3	129 D 4.0	556 C 17.1	161 D 4.9	126 C 3.5	592 B 18.2
RENTAL ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF USE	3993 A 31.3	8515 A 66.7	8039 A 63.0	7582 A 59.4	3480 B 27.1	1104 B 8.6	27 B 0.2	4872 A 38.1	288 D 2.3	360 C 2.8	661 B 5.2
OTHER ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF USE	960 B 18.3	3070 A 58.6	2321 B 44.3	2563 B 49.0	1574 B 30.1	392 C 7.5	229 C 4.4	1178 B 22.5	466 B 8.9	372 C 7.1	1443 B 27.6
INACTIVE ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF USE	8671 A 23.0	4107 A 10.9	3988 A 10.6	3833 A 10.2	1384 A 3.7	387 C 1.0	119 D 0.3	1838 A 4.9	284 B 0.8	412 C 1.1	14535 A 45.2
TOTAL ESTIMATED POPULATION & STANDARD ERROR ESTIMATED % OF POP	89219 A 36.0	111785 A 45.1	123098 A 49.6	119260 A 48.1	65873 A 26.6	18647 A 7.5	2892 A 1.1	73019 A 29.4	14505 A 5.8	16215 A 6.2	51387 A 20.7

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

STANDARD ERROR		CODE	
GREATER THAN	-----	LESS THAN	-----
0 %	-----	EQUAL TO	-----
10 %	-----	10 %	-----
20 %	-----	20 %	-----
30 %	-----	30 %	-----
40 %	-----	40 %	-----

TABLE 2-16 GENERAL AVIATION LIFETIME AIRFRAME HOURS BY AIRCRAFT MANUFACTURER AND MODEL - CY 1979 (1 of 13)

MANUFACTURER / MODEL	HOURS ESTIMATE (IN THOUSANDS)	STANDARD ERROR (IN THOUSANDS)	PERCENT STANDARD ERROR
OTHER 01	3935.4	583.8	14.8
OTHER 02	1234.1	102.6	8.3
OTHER 03	1021.6	458.4	44.9
OTHER 04	1244.7	167.8	13.5
OTHER 05	1045.1	94.8	9.1
OTHER 06	69.3	19.3	27.8
OTHER 07	2177.0	732.5	33.6
OTHER 08	1023.2	105.6	10.3
OTHER 09	624.7	231.2	37.0
OTHER 10	1575.4	149.4	9.5
OTHER 11	1009.9	216.0	21.4
OTHER 12	866.5	230.3	26.6
OTHER 13	532.6	71.3	13.4
ADAMS 4505	3.5	1.1	31.6
AEROSPSA316	95.6	32.5	34.0
AEROSPSA341	114.4	21.6	18.9
AGUSTA205	249.4	34.9	14.0
AIRPTSA	643.8	49.6	7.7
AIRSPC10	8.9	2.5	27.4
AIRTRCAT300	186.9	34.7	18.5
AND FALC10	102.4	21.0	20.5
AND FALC20	913.2	81.1	8.9
ARCNEH37	168.8	8.8	8.0
ARCTICSLA	277.1	31.5	11.4

Note: See following page for coding.

NOTE: Other: XX refers to all general aviation aircraft belonging to manufacturer/model groups of fewer than 20 aircraft in size for aircraft XX where XX stands for

- 01 Fixed wing piston, 1 engine, 1-3 seats.
- 02 Fixed wing piston, 1 engine, 4+ seats.
- 03 Fixed wing piston, 2 engines, 1-6 seats.
- 04 Fixed wing piston, 2 engines, 7+ seats.
- 05 Fixed wing piston, other.
- 06 Fixed wing turboprop, 2 engines, 1-12 seats.
- 07 Fixed wing turboprop, 2 engines, 13+ seats.
- 08 Fixed wing turboprop, other.
- 09 Fixed wing turbojet, 2 engines.
- 10 Fixed wing turbojet, other.
- 11 Rotorcraft, piston.
- 12 Rotorcraft, turbine.
- 13 Other aircraft.

TABLE 2-16 GENERAL AVIATION LIFETIME AIRFRAME HOURS BY AIRCRAFT MANUFACTURER AND MODEL - CY 1979 (2 of 15)

MANUFACTURER / MODEL	CONTINUED		PERCENT STANDARD ERROR
	HOURS ESTIMATE (IN THOUSANDS)	STANDARD ERROR (IN THOUSANDS)	
ARCTICSEB1	25.6	2.8	11.0
ARONCA15	422.3	10.7	2.5
ARONCA65	522.5	129.2	24.7
ARONCA63	48.1	5.4	11.2
ARONCA058	259.9	39.7	15.3
AYRES 52	1997.0	164.4	8.2
BAC 111	369.7	31.2	8.4
BAG 8206	113.3	15.3	13.5
BAG OH125	27.1	2.9	10.8
BAG HP137	93.3	24.1	25.8
BALWKSPIREPY	95.3	34.4	36.1
BEECH 100	433.9	67.4	20.1
BEECH 17	422.2	54.8	13.0
BEECH 18	8670.1	488.9	5.5
BEECH 280	637.6	81.8	12.8
BEECH 23	4434.8	248.4	5.6
BEECH 33	3171.7	218.3	6.9
BEECH 35	20188.3	802.5	4.0
BEECH 36	1215.6	172.7	14.2
BEECH 45	1464.1	94.4	6.4
BEECH 50	1730.6	158.1	9.1
BEECH 55	4527.3	413.4	9.1
BEECH 56	126.5	14.6	11.6
BEECH 58	1015.8	137.1	13.5
BEECH 60	517.3	75.2	14.5

TABLE 2-16 GENERAL AVIATION LIFETIME AIRFRAME HOURS BY AIRCRAFT MANUFACTURER AND MODEL - CY 1979 (3 of 13)

MANUFACTURER / MODEL	CONTINUED			PERCENT STANDARD ERROR
	HOURS ESTIMATE (IN THOUSANDS)	STANDARD ERROR (IN THOUSANDS)		
BEECH 65	631.9	51.8		8.2
BEECH 76	45.9	7.2		15.6
BEECH 77	9.0	5.0		55.6
BEECH 80	730.0	83.4		11.4
BEECH 90	2685.2	315.8		11.8
BEECH 95	1594.6	168.9		10.6
BEECH 99	1332.7	96.0		7.2
BELL 204	574.9	130.8		22.7
BELL 206	4168.4	493.7		11.8
BELL 212	480.9	160.3		33.3
BELL 47	6674.1	523.6		8.1
BLANCA11	1676.1	161.4		9.6
BLANCA1413	575.7	62.3		10.8
BLANCA1619	405.0	48.5		12.0
BLANCA17	1045.6	124.4		11.9
BLANCA7	12445.8	453.9		3.6
BLANCA8	301.8	48.2		16.0
BOJPM 8N2	419.5	114.5		27.3
BOEING707	2225.0	142.8		6.4
BOEING727	753.7	64.8		8.6
BOEING75	7564.3	589.0		7.8
BOEING817	116.4	12.2		10.5
GOLKMS105	153.9	27.4		17.8
BRABCOH125	391.7	40.3		10.3
BRASOV1528	9.6	1.2		12.8

TABLE 2-16 GENERAL AVIATION LIFETIME AIRFRAME HOURS BY AIRCRAFT MANUFACTURER AND MODEL - CY 1979 (4 of 13)

MANUFACTURER / MODEL	HOURS ESTIMATE (IN THOUSANDS)	STANDARD ERROR (IN THOUSANDS)	PERCENT STANDARD ERROR
BRWSTFLBET2	71.5	4.4	6.2
BRWSTFLBET7	81.7	2.7	3.3
CAMPROMDELO	10.1	1.7	16.9
CESSNA120	2656.7	242.0	9.1
CESSNA140	7027.1	628.7	8.9
CESSNA150	47636.2	2272.1	4.8
CESSNA170	6230.2	276.6	4.4
CESSNA172	44572.8	1787.9	4.0
CESSNA175	2732.6	79.8	2.9
CESSNA177	4259.2	429.5	10.1
CESSNA180	6312.1	397.8	6.3
CESSNA182	22212.8	1221.6	5.5
CESSNA185	1448.9	230.5	17.3
CESSNA188	2105.0	188.4	8.9
CESSNA190	203.8	7.7	3.8
CESSNA195	1516.6	58.6	3.9
CESSNA206	4062.7	436.8	10.9
CESSNA207	629.2	233.1	37.0
CESSNA215	7244.5	481.6	6.6
CESSNA305	1414.8	243.7	17.2
CESSNA310	8603.8	936.9	10.9
CESSNA320	943.5	81.4	8.6
CESSNA326	180.3	7.3	4.0
CESSNA337	2117.5	173.8	8.2
CESSNA360	903.1	130.1	14.4

TABLE 2-16 GENERAL AVIATION LIFETIME AIRFRAME HOURS BY AIRCRAFT MANUFACTURER AND MODEL - CY 1979 (5 of 13)

MANUFACTURER / MODEL	HOURS ESTIMATE (IN THOUSANDS)	STANDARD ERROR (IN THOUSANDS)	PERCENT STANDARD ERROR
CESSNA401	794.2	68.3	8.6
CESSNA402	1817.2	429.7	23.6
CESSNA404	97.3	11.2	11.5
CESSNA411	659.2	36.8	5.6
CESSNA414	692.2	94.7	13.7
CESSNA421	1811.1	182.1	10.1
CESSNA441	24.0	3.0	12.5
CESSNA500	664.8	75.6	11.4
CESSNA750	210.7	16.1	7.7
CESSNAUC77	37.7	2.9	7.7
CESSNAUC94	93.7	3.5	3.7
CHILD S2	59.2	17.0	28.6
COMINTH185	123.7	15.8	12.8
CONAERLA4	319.1	91.1	28.5
CURTISC46	664.1	64.2	9.7
CURTISJR	13.9	3.8	27.5
CURTISRDB14	75.1	16.1	21.5
CURTISTRVAIR	778.7	65.9	8.5
CVAC 22	1306.3	40.9	3.1
CVAC 240	1037.2	138.1	13.1
CVAC 340	578.0	123.9	21.4
CVAC 8T13	203.6	24.6	12.1
CVAC LI3	15.5	3.1	20.3
CVAC STC580	460.4	44.4	9.6
DART G	31.4	1.2	3.8

TABLE 2-16 GENERAL AVIATION LIFETIME AIRFRAME HOURS BY AIRCRAFT MANUFACTURER AND MODEL - CY 1979 (6 of 13)

MANUFACTURER / MODEL	HOURS ESTIMATE (IN THOUSANDS)	STANDARD ERROR (IN THOUSANDS)	PERCENT STANDARD ERROR
DHAV DHC1	318.5	44.6	14.0
DHAV DHC2	2465.6	197.4	8.0
DHAV DHC3	92.8	8.5	9.1
DHAVXXDH82	334.2	49.3	14.7
DOUG 426	231.6	38.0	16.4
DOUG DC3	10874.4	1813.3	16.7
DOUG DC4	1488.0	173.3	11.6
DOUG DC6	3272.3	227.7	7.0
DOUG DC7	872.1	141.2	16.2
DOUG DC8	2622.7	36.0	1.4
DOUG DC9	188.0	16.3	8.6
E1RVON20	19.7	2.6	13.3
EMAJR MA1	65.2	17.2	26.4
ENSTPMF28	336.6	35.7	10.6
FLEET 168	41.1	4.0	9.7
FRCMLD24	510.0	72.5	14.2
FRCMLDC119	203.5	18.0	8.8
FRCMLDF27	446.7	54.4	12.2
FRCMLDFH1100	241.8	19.7	8.1
FRCMLDM62	421.7	44.1	10.4
GENBALAX6	2.4	0.3	11.5
GLASFLLI3ELL	121.0	19.0	15.7
GRAB ASTIR	7.8	1.3	16.5
GRTLS2T1	98.1	10.2	10.4
GRUMANT8M	60.8	5.5	9.1

TABLE 2-16 GENERAL AVIATION LIFETIME AIRFRAME HOURS BY AIRCRAFT MANUFACTURER AND MODEL - CY 1979 (7 of 13)

MANUFACTURER / MODEL	HOURS ESTIMATE (IN THOUSANDS)	STANDARD ERROR (IN THOUSANDS)	PERCENT STANDARD ERROR
GRJMAVAA1	937.7	63.0	7.2
GRJMAVAAS	997.5	71.8	7.2
GRJMAVG164	1549.5	176.1	11.4
GULSTMAA1	602.9	75.0	5.3
GULSTMAAS	677.1	81.0	12.0
GULSTMG1159	579.9	52.1	5.0
GULSTMG1159	1239.8	90.0	7.3
GULSTMG164	2299.3	384.6	16.7
GULSTMG21	628.0	68.0	10.8
GULSTMG44	294.0	136.5	46.4
GULSTMG73	303.5	23.5	7.7
GULSTMGAT	20.9	3.3	15.8
HELIO H250	56.8	5.9	10.4
HELIO H295	215.1	19.9	9.3
HELIO H391	62.4	8.8	14.0
HELIO H395	79.9	6.5	8.1
HILLERUH12	2084.7	364.4	17.5
HUGHES269	2623.4	480.3	18.3
HUGHES369	561.9	84.9	15.1
HWSLYDH104	167.2	37.9	22.7
HWSLYDH114	993.0	36.5	3.7
HWSLYDH125	168.0	19.3	11.5
HYVES B2	145.9	4.1	3.0
ISRAEL1121	315.0	75.4	23.9
ISRAEL1124	70.5	9.3	13.2

TABLE 2-16 GENERAL AVIATION LIFETIME AIRFRAME HOURS BY AIRCRAFT MANUFACTURER AND MODEL - CY 1979 (8 of 13)

MANUFACTURER / MODEL	HOURS ESTIMATE (IN THOUSANDS)	STANDARD ERROR (IN THOUSANDS)	PERCENT STANDARD ERROR
JRMSTROGALS	94.0	27.6	29.4
KUHLQWD	470.5	43.2	9.2
LAIKEN10	24.6	1.6	6.5
LEAR 23	421.3	35.5	8.4
LEAR 24	852.1	93.2	10.9
LEAR 25	844.0	106.2	12.6
LEAR 35	264.8	24.7	9.3
LFT L13	96.4	12.8	13.2
LKHEED12A	200.2	34.7	17.3
LKHEED1329	619.9	105.4	17.0
LKHEED18	870.5	70.6	8.1
LKHEEDPV1	117.4	15.6	13.3
LKHEEDT33	343.5	64.9	18.9
LUSCON8	5431.8	677.8	12.5
MARTINA04	825.6	112.4	13.6
MAULE M4	265.6	26.0	9.8
MAULE M2	155.3	14.6	9.4
MCCULHU2	7.1	1.0	13.7
MCL ISHFUNK8	195.7	23.1	11.8
MEYER SQTW	115.2	11.3	9.8
MNCOUR90	133.5	18.4	13.8
MNNITTE18	149.7	27.3	18.2
MODNEYM20	9537.9	486.7	4.9
MPCHTIS205	43.5	2.7	6.2
NTS8 SIMU2	1063.4	165.8	15.6

TABLE 2-16 GENERAL AVIATION LIFETIME AIRFRAME HOURS BY AIRCRAFT MANUFACTURER AND MODEL - CY 1979 (9 of 13)

MANUFACTURER / MODEL	HOURS ESTIMATE (IN THOUSANDS)	STANDARD ERROR (IN THOUSANDS)	PERCENT STANDARD ERROR
MULTECD16	114.6	9.7	8.4
NAMER B25	276.5	22.7	8.2
NAMER F51	192.2	48.9	25.4
NAMER NA260	148.4	11.5	7.8
NAMER T6	1955.1	228.6	11.7
NAVAL M3N	805.6	25.9	3.2
NAVIONNAVION	3255.6	176.6	5.4
NORD SV4	97.3	19.1	19.6
ORLHELM19	184.2	36.0	19.6
PICARDAX6	33.5	3.7	10.9
PILATSB4	11.1	1.6	14.5
PIPER W00	149.3	19.3	12.9
PIPER J2	75.6	5.7	7.6
PIPER J3	10984.0	576.6	5.2
PIPER J4	518.2	58.3	11.3
PIPER J5	925.4	39.0	4.2
PIPER PA12	3685.6	305.8	8.3
PIPER PA14	329.8	29.5	8.9
PIPER PA15	272.1	34.4	12.6
PIPER PA16	747.7	60.2	8.0
PIPER PA17	273.1	47.6	17.4
PIPER PA18	8586.7	1016.8	11.8
PIPER PA20	1080.9	110.9	10.3
PIPER PA22	11789.2	345.5	2.9
PIPER PA23	11886.6	591.1	5.0

TABLE 2-16 GENERAL AVIATION LIFETIME AIRFRAME HOURS BY AIRCRAFT MANUFACTURER AND MODEL - CY 1979 (10 of 13)

MANUFACTURER / MODEL	HOURS ESTIMATE (IN THOUSANDS)	STANDARD ERROR (IN THOUSANDS)	PERCENT STANDARD ERROR
PIPER PA24	8735.2	377.8	4.3
PIPER PA25	3791.8	221.0	5.8
PIPER PA28	42638.3	1537.1	3.6
PIPER PA30	3993.2	223.1	5.6
PIPER PA31	4212.7	444.1	10.5
PIPER PA31T	245.6	43.9	17.9
PIPER PA32	5284.6	398.0	7.5
PIPER PA34	2296.3	920.6	23.0
PIPER PA36	332.2	36.3	10.9
PIPER PA38	550.2	53.7	9.8
PIPER PA44	75.6	9.1	12.0
PIATT PRO1	22.0	4.3	19.5
PROPT200	154.1	12.3	8.0
RANKING5	214.7	56.8	26.5
RAVEN RX6	20.0	3.3	16.3
RAVEN S50	51.5	66.7	129.7
RAVEN S55	90.7	13.7	15.1
RAVEN S60	4.0	0.8	20.4
REIMS 150	20.3	0.0	0.0
PKWELL112	559.7	53.0	9.5
PKWELL500	1600.6	179.2	11.2
PKWELL520	235.6	14.4	6.1
PKWELL560	670.3	73.9	11.0
PKWELL680	2374.7	304.8	12.8
PKWELL680TP	454.8	50.1	11.0

TABLE 2-16 GENERAL AVIATION LIFETIME AIRFRAME HOURS BY AIRCRAFT MANUFACTURER AND MODEL - CY 1979 (11 of 13)

MANUFACTURER / MODEL	HOURS ESTIMATE (IN THOUSANDS)	STANDARD ERROR (IN THOUSANDS)	PERCENT STANDARD ERROR
AKWELL690TP	472.6	60.1	12.7
AKWELL700	4.6	0.9	19.9
AKWELLNA265	1320.4	137.7	11.9
FOLSCHLS	19.1	1.1	5.8
RYAN ST3	399.8	47.9	12.0
RYAN STA	67.0	6.0	9.0
SCHLERAS19	21.8	1.9	8.8
SCHLERASW19	8.1	1.1	13.5
SCHLERASW20	7.2	1.3	17.6
SCHLERK8	33.9	5.5	16.3
SCHLFKKA6	68.2	2.1	3.1
SC42ERSG1	356.0	47.0	13.3
SCW2FRSG2	1040.8	150.2	14.4
SCWZERTG3A	25.6	4.1	16.7
SEMO CLYGER	3.8	0.5	12.5
SEMO MODEL T	6.9	1.1	16.5
SKR SKYS55	446.0	92.2	20.7
SKR SKYS58	270.1	33.9	12.6
SKR SKYS58T	108.5	8.1	7.5
SLINDS100	634.9	142.7	22.5
SMITH A00	417.3	72.5	17.4
SNIAS 350	27.9	5.0	18.1
SNIAS 34318	45.6	31.8	69.7
SOCATAMS894	31.7	3.4	10.8
SOCATARALLYE	8.2	1.5	18.9

TABLE 2-16 GENERAL AVIATION LIFETIME AIRFRAME HOURS BY AIRCRAFT MANUFACTURER AND MODEL - CY 1979 (12 of 13)

MANUFACTURER / MODEL	HOURS ESTIMATE (IN THOUSANDS)	STANDARD ERROR (IN THOUSANDS)	PERCENT STANDARD ERROR
SPRTHCIRRU	61.7	3.7	6.1
SPRTHWMBUS	15.5	1.5	9.6
STNSONIO	327.8	31.8	9.7
STNSOHL5	266.9	13.6	5.1
STNSONSR9	68.6	5.9	8.7
STOLAMP03	239.9	24.7	10.3
SUPAC LA	120.2	8.6	7.1
SUPAC V	23.3	1.8	7.6
SWRNGMS4226	447.2	29.5	6.6
SWRNGMS426	496.2	37.0	7.5
TCRAFTA	37.5	9.5	25.4
TCRAFTBC	4056.9	263.3	6.5
TCRAFTBF	115.4	10.2	8.9
TCRAFTBL	346.6	61.8	17.8
TFMCO 114	50.4	2.4	4.7
THUNDRAX7	4.7	0.3	5.8
TRYTEKK	37.2	4.6	12.3
UNIVACGC1	1295.4	101.4	7.8
UNIVAR108	4466.2	98.9	2.2
UNIVAR415	4183.0	301.0	7.2
VARGA 2150	53.7	5.0	9.2
WACO ASD	92.1	13.8	15.0
WACO GHE	16.7	3.8	5.9
WACO R	33.9	4.5	8.3
WACO U	16.9	3.9	6.7

TABLE 2-16 GENERAL AVIATION LIFETIME AIRFRAME HOURS BY AIRCRAFT MANUFACTURER
AND MODEL - CY 1979 (13 of 13)

MANUFACTURER / MODEL	HOURS ESTIMATE (IN THOUSANDS)	STANDARD ERROR (IN THOUSANDS)	PERCENT STANDARD ERROR
WACO JPF7	526.6	10.9	2.1
WACO YK	131.5	8.6	6.5
WODDHM65	857.6	35.7	4.2
WTHPL Y201	103.4	13.1	12.6
TOTAL AIRCRAFT	533977.	5211.2	1.0

TABLE 2-17 GENERAL AVIATION MEAN HOURS AND ACTIVE ENGINES BY ENGINE MANUFACTURER/
MODEL GROUP - CY 1979 (1 of 3)

ENGINE MANUF / MODEL GROUP	ESTIMATE OF ACTIVE POPULATION	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	ESTIMATE OF MEAN HOURS	PERCENT STANDARD ERROR
ALLSN 250C	1777	2.61	94.50	647	8.25
ALLSN 501D	117	8.45	85.82	625	14.84
AMTSMC-ULH	150	19.74	28.41	25	12.48
ARSACME731	90	0.00	100.00	467	8.88
ARSACME731	755	1.63	98.17	406	7.01
CONT 6285	163	11.38	80.52	340	14.32
CONT 975	28	0.00	100.00	150	46.19
CONT A40	28	41.14	21.65	33	25.66
CONT A50	29	24.38	84.47	48	10.19
CONT A85	5835	3.89	55.90	60	8.93
CONT A75	1201	9.93	52.56	57	16.99
CONT A80	49	42.37	60.00	72	5.42
CONT C125	234	12.78	53.47	65	12.61
CONT C145	1980	3.96	80.63	77	9.92
CONT C85	4819	3.92	72.29	61	9.44
CONT C90	1999	6.03	72.46	76	11.49
CONT E185	1873	5.64	82.71	106	11.09
CONT E225	1493	4.76	91.16	18	11.94
CONT O200	14745	1.88	89.85	205	8.18
CONT O300	10032	1.81	91.96	88	5.68
CONT O346	314	9.76	89.85	42	16.35
CONT O360	3722	2.00	96.07	219	8.79
CONT O470	26543	0.78	95.72	147	3.63
CONT O520	24880	0.69	96.30	259	3.00
CONT R670	619	8.29	56.51	90	11.44
OHAVAGIPSY	92	10.42	74.11	42	12.78
FCO 6440	187	17.05	48.85	56	14.55
FRKLM44-150	16	42.74	62.79	82	26.82
FRKLMAC176	87	40.98	42.08	11	45.94
FRKLM44C199	58	18.13	33.26	41	50.60
FRKLM6A7350	213	8.95	82.92	90	17.36
FRKLM6A7355	72	7.68	98.10	221	52.43
GE C4700	424	0.00	100.00	491	5.71
GE C4610	924	3.23	90.97	428	6.43
GE C4805	40	6.44	47.67	802	3.78
GE C4805F	16	5.69	79.59	152	15.47
GE CT58	33	0.00	100.00	616	31.73
GLADEMKS	6	90.25	12.50	24	5.36
GLADEMKS	93	23.40	46.98	32	17.03
JACOBPT755	338	7.78	72.10	53	22.36

TABLE 2-17 GENERAL AVIATION MEAN HOURS AND ACTIVE ENGINES BY ENGINE MANUFACTURER/
MODEL GROUP - CY 1979 (2 of 3)

ENGINE MANUF/ MODEL GROUP	ESTIMATE OF ACTIVE POPULATION	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	ESTIMATE OF MEAN HOURS	PERCENT STANDARD ERROR
JACOBSON755	165	11.13	38.63	106	34.49
JACOBSON915	40	25.02	47.28	47	9.78
LYC L15101	22	0.00	100.00	278	14.82
LYC O145	399	16.18	44.45	63	25.46
LYC O235	8648	2.12	85.66	259	6.84
LYC O290	2244	7.37	63.77	64	24.92
LYC O320	35406	0.97	90.92	205	4.24
LYC O340	113	19.45	81.86	63	33.01
LYC O360	24270	0.92	93.59	199	3.67
LYC O355	1226	6.26	71.45	294	17.77
LYC O450	1352	4.48	76.79	171	10.35
LYC O460	20904	0.85	95.34	288	3.50
LYC O461	1043	3.13	93.49	242	7.33
LYC O720	187	10.33	90.00	135	21.07
LYC R660	287	16.36	41.00	65	16.72
LYC T53	71	0.00	100.00	862	9.28
MMA SCOC4	11	28.44	42.35	20	17.57
PCKAROV1450	58	32.17	50.48	55	21.74
PMA J112	780	1.70	98.38	470	4.33
PMA J115	373	1.37	99.35	451	5.61
PMA J12C	39	9.41	60.96	236	5.47
PMA J13U	147	4.81	91.94	163	18.33
PMA J14	104	5.97	53.26	458	6.08
PMA J18	208	3.53	94.90	939	8.27
PMA J19	32	0.00	100.00	846	0.00
PMA PT6	2936	0.77	99.01	546	4.94
PMA PT6T	128	7.68	93.90	787	16.47
PMA R1340	1904	3.71	82.67	427	5.64
PMA R1330	439	9.24	62.25	341	12.45
PMA R2000	132	6.23	65.17	227	14.23
PMA R2800	542	9.15	56.14	357	14.44
PMA R985	2930	4.23	62.55	372	5.28
RRDYCEDART	422	4.43	85.82	560	6.73
RRDYCEG18Y	16	14.67	40.63	928	18.55
RRDYCEG211	11	34.50	50.00	346	0.00
RRDYCESPEY	366	0.00	100.00	627	5.69
RRDYCEV18P	230	0.00	100.00	367	4.76
THECA AST1T3	53	21.97	61.94	623	10.67
THECA AST1AT	24	8.03	86.57	1710	4.67
THECA AST2T	27	36.84	63.89	446	10.98
THECA AST3	49	0.00	100.00	291	7.55

TABLE 2-17 GENERAL AVIATION MEAN HOURS AND ACTIVE ENGINES BY ENGINE MANUFACTURER/
MODEL GROUP - CY 1979 (3 of 3)

ENGINE MANUF/ MODEL GROUP	ESTIMATE OF ACTIVE POPULATION	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	ESTIMATE OF MEAN HOURS	PERCENT STANDARD ERROR
WARNER165	39	29.73	27.04	31	12.96
WARNER185	4	132.79	13.85	13	37.20
WARNER50	73	13.06	38.43	35	11.24
WRIGHTJ5	5	51.35	14.60	33	37.56
WRIGHTR760	30	14.99	28.73	63	16.81
WRIGHTR975	17	63.69	22.42	250	33.19
ALL ENGINES	23814	0.01	85.48	222	1.23

NOTE: ENGINE MANUFACTURER/MODEL GROUPS FOR WHICH
SEPARATE ESTIMATES ARE NOT AVAILABLE ARE NOT
LISTED IN THE TABLE, BUT ARE INCLUDED IN THE
"ALL ENGINES" ESTIMATES.

TABLE 2-18 GENERAL AVIATION FUEL CONSUMED BY TYPE OF AIRCRAFT - CY 1979

AIRCRAFT TYPE	MEAN RATE GPH	ESTIMATED FUEL USE (MIL GAL)	STANDARD ERROR (MIL GAL)
FIXED WING			
PISTON			
1 ENG 1-3 SEATS	8.34	93.20	3.3
1 ENG 4+ SEATS	10.92	208.66	4.6
TOTAL 1 ENG	9.97	301.85	5.7
2 ENG 1-6 SEATS	26.10	104.55	4.0
2 ENG 7+ SEATS	37.94	108.32	5.3
TOTAL 2 ENG	31.03	212.87	6.6
OTHER PISTON	225.95	34.30	3.5
TOTAL PISTON	14.72	549.03	9.4
TURBOPROP			
2 ENG 1-12 SEATS	75.29	94.43	4.6
2 ENG 13+ SEATS	161.30	92.33	7.7
TOTAL 2 ENG	102.24	186.76	8.9
OTHER TURBOPROP	149.29	6.67	0.8
TOTAL TURBOPROP	103.36	193.43	9.0
TURBOJET			
2 ENG	299.93	316.88	15.3
OTHER	1054.40	142.04	11.3
TOTAL TURBOJET	380.43	478.92	19.0
TOTAL FIXED WING	30.21	1221.37	23.0
ROTORCRAFT			
PISTON			
22.84	20.36	2.2	2.2
TURBINE	37.98	63.19	4.4
TOTAL ROTORCRAFT	32.70	63.55	5.0
OTHER	2.67	0.94	0.1
TOTAL AIRCRAFT	30.13	1305.86	23.6
TOTAL JET FUEL	153.43	735.53	21.5
TOTAL AVIATION GASOLINE	14.80	570.33	9.6

APPENDIX A.1. FIRST MAILING COVER LETTER

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

WASHINGTON, D.C. 20591

February 29, 1980



Dear Aircraft Owner:

Enclosed is the annual General Aviation Activity and Avionics Survey for calendar year 1979. Data collected in the survey will be used for performing safety analysis, for determining the demand for air traffic facilities and services, and for assessing the impact of proposed regulatory changes on the general aviation fleet.

The survey is being mailed to owners of a random sample of less than 15 percent of all general aviation aircraft. Because the sample is random, it is possible that more than one of your aircraft may be selected or that your aircraft may be selected in two successive years. This may happen in particular when there are a small number of aircraft of the type that you own. When more than one of your aircraft are selected, you will find a separate questionnaire provided for each aircraft. Please answer all questions for the aircraft identified. If you cannot determine precisely an answer to a question, please make your best estimate.

If your aircraft was not in use during the year (e.g., in storage, dismantled, destroyed, exported, etc.) please check item 5, indicating the aircraft was not flown. If the aircraft was sold prior to January 1979, it would be quite helpful if you would write a note indicating this on the survey questionnaire. If your aircraft is operated principally by another (leased, etc.), please obtain the necessary information from the operator or forward these materials to that person or firm for completion.

Please return this questionnaire in the enclosed self-addressed postpaid envelope within 10 days. Because the survey is based on a sample of general aviation aircraft, your response is especially important to the accuracy of the results. A prompt response will eliminate the need for additional follow-up contacts. A high response rate will ensure the continued use of sampling methods to collect activity and avionics data.

The data gathered from this survey will be used only to produce summary statistics and not to disclose individual operations nor to make changes to your aircraft records. We appreciate your cooperation.

Sincerely,

A handwritten signature in dark ink, appearing to read "F. C. Osgood", is written over the typed name.

F. C. OSGOOD
Chief, Information and Statistics Division, AMS-200

Enclosure

APPENDIX A.2. SECOND MAILING COVER LETTER

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

WASHINGTON, D.C. 20591



March 31, 1980

Dear Aircraft Owner:

In February the Federal Aviation Administration sent aircraft owners a questionnaire as part of its program to gather statistical information on the use and characteristics of the general aviation fleet.

You were one of the aircraft owners selected at random to receive a questionnaire. As of this date, we have not received a response from you. In the event the survey questionnaire has been lost or misplaced, another copy is enclosed for your convenience in responding. A prompt response will eliminate the need for additional follow-up contacts. If you have already responded, please disregard this notice. We appreciate your cooperation.

Sincerely,

A handwritten signature in dark ink, appearing to read "F. C. Osgood", is written over the typed name.

F. C. OSGOOD
Chief, Information and Statistics Division, AMS-200

Enclosure

APPENDIX A.3. SURVEY QUESTIONNAIRE

1 CONTROL NUMBER	DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION GENERAL AVIATION ACTIVITY and AVIONICS SURVEY (As of December 31, 1979)	Form Approved MB No. 04-40195
<p>This report is authorized by Section 311 of the Federal Aviation Act of 1958, as amended. While you are not required to respond, your cooperation is needed to make the results of this survey comprehensive, accurate and timely. Information collected in this survey will be used for statistical purposes only and not to disclose individual aircraft activity.</p>		<p><input type="checkbox"/> X here if you operate your aircraft principally as an air carrier (under FAR 121 or 127). If so, DO NOT complete remainder of form. However, please return to address shown below.</p>

AIRCRAFT CHARACTERISTICS

INSTRUCTIONS: Please answer questions for the aircraft identified at right. Mail this completed questionnaire in the enclosed postage paid envelope to:

Federal Aviation Administration
P.O. Box 26045
Oklahoma City, Oklahoma 73126

4 What were the total lifetime airframe hours as of December 31, 1979?

5 Was aircraft flown in Calendar Year 1979? (Check one)
1 ☐ Yes 2 ☐ No (Skip to question 10)

6 Did you own this aircraft for the entire year of 1979?

1 ☐ Yes 2 ☐ No

If "No," include previous owner's hours for 1979 in your estimates below

7 HOURS FLOWN DURING CALENDAR YEAR 1979

EXECUTIVE - Corporate flying with professional crew

BUSINESS - All non-executive flying for business reasons

PERSONAL - Individual flying for personal reasons

AERIAL APPLICATION - Agriculture, health, forestry
INSTRUCTIONAL - Flying with or under supervision of a flight instructor

AIR TAXI - All Part 135 passenger, cargo, and mail operations, including charter

INDUSTRIAL/SPECIAL - Patrol, survey, photo, hoist, etc - Other than Part 135

AIRCRAFT RENTAL BUSINESS - Commercial flying club, leased and rental aircraft activity

OTHER - R&D government, air show, sales, parachuting, etc

8 Was this aircraft flown on an Instrument Flight Plan in 1979? 1 ☐ Yes 2 ☐ No

If "Yes," how many hours were flown on an Instrument Flight Plan?

9 Estimate of this aircraft's average rate of fuel consumption (gal/hr) during 1979 (Report whole gals only)

10 State (Abbreviation) or foreign country in which aircraft was based as of December 31, 1979

11 AVIONICS EQUIPMENT CAPABILITY "X" ALL boxes that reflect this aircraft's current capability. If none, check the last box in each group.

VHF COMMUNICATIONS EQUIPMENT

VHF Communications System

360 Channels or less

720 Channels or more

More than one comm. system

No VHF Communications Equipment

TRANSPONDER EQUIPMENT

4096 Code

Altitude Encoding Equipment

No Transponder Equipment

NAVIGATION EQUIPMENT

VOR Receiver

100 Channels

200 Channels

More than one VOR Receiver

Automatic Direction Finder (ADF)

Distance Measuring Equipment (DME)

Area Navigation Equipment (RNAV)

Long Range Nav. (Doppler, INS, Other)

Automatic Pilot

Radar Altimeter

Weather Radar

No Navigation Equipment

ILS RECEIVING EQUIPMENT

Localizer

Marker Beacon

Glide Slope

Microwave Landing System

No ILS Receiving Equipment

THANK YOU
FOR YOUR COOPERATION

APPENDIX B

SAMPLE DESIGN

B.1 SAMPLE FRAME AND SIZE

The Aircraft Registration Master File, maintained by the FAA Mike Monroney Aeronautical Center in Oklahoma City, provided the sample frame, the list of aircraft from which the sample was selected, for the survey. This file is the official record of registered civil aircraft in the U.S., containing one record per aircraft.

Between the 1977 and 1978 survey cycles several changes occurred to this file which had an impact on the sample population and frame, and ultimately on the survey results. In January 1978, FAA implemented a new procedure for maintaining the file, known as triennial revalidation. Instead of requiring all owners to revalidate and update their aircraft registration annually, FAA required revalidation for only those owners who had not contacted the registry for three years. The less frequent updating affected the accuracy of the file and its representativeness. Two major consequences for the survey results are discussed below:

- 1) The accuracy of owners' names and addresses deteriorated causing the number of questionnaires returned by the post office to double from 1977 to 1978 and again from 1978 to 1979. This partially accounted for the lower survey response rates in 1978 and in 1979.
- 2) The file contained a residue of aircraft which under the old revalidation system would have been deregistered and purged from the file, but remained under the new system. Consequently, the population counts were inflated resulting in artificially large increases in the estimates of the number of active general aviation aircraft from 1977 to 1978, and from 1978 to 1979.

Also during this period the entire Aircraft Registration System was installed on a new computer system. At the same time, FAA modified many of the updating and processing procedures. It is quite possible that these changes affected the registration file, although it is not known in what way.

Finally, new legislation required two categories of aircraft, formerly ineligible, to be registered with the U.S. Registry, namely:

- 1) aircraft owned by individual citizens of foreign countries who are permanent residents of the U.S., and
- 2) aircraft owned by non-U.S. corporations which are organized and doing business under U.S. law as long as the aircraft are based and used primarily in the U.S.

The definition of a registered general aviation aircraft changed from 1977 to 1978 to include the two new groups. It is estimated that these aircraft comprise less than one half percent of the general aviation fleet.

Thus, these changes discussed above affected the contents of the Aircraft Registration Master File and consequently the survey results. While it is difficult to quantify the effects of the changes, FAA estimates that they caused the survey results to overestimate population and hours flown by not more than five percent.

All aircraft identified as general aviation in the file according to the definition in Section 1.2.1 comprise the sample frame with the following exceptions:

- 1) Aircraft registered to dealers.
- 2) Aircraft with "Sale Reported" or "Registration Pending" appearing in the record instead of the owner's name.
- 3) Aircraft with a known inaccurate owner's address.
- 4) Aircraft with missing state of registration, aircraft make-model-series code, or aircraft type information.

For calendar year 1979, the sample frame consisted of 248,070 general aviation aircraft records from which 35,145 records were sampled, yielding a 14.2 percent sample. Table B-1 and Figure B.1 show the distribution of the sample compared to that of the population by aircraft type. Table B-2 and Figure B.2 show similar distributions by FAA region. (See Appendix C for the FAA regional map.) These displays clearly demonstrate the disproportionality of the sample to the population, an intended result of the sample design to gain efficiency and to control errors.

B.2 DESCRIPTION OF SAMPLE DESIGN

The sample design employed was a stratified, systematic design from a random start. The sample was selected from a two-way stratified frame matrix. The two stratification criteria were:

TABLE B-1. SAMPLE AND POPULATION DISTRIBUTIONS BY AIRCRAFT TYPE

TYPE	POPULATION	SAMPLE SIZE	SAMPLE AS % OF POPULATION
Fixed Wing			
Piston			
1 engine, 1-3 seats	83,970	13,321	15.9
1 engine, 4+ seats	115,507	10,892	9.4
2 engines, 1-6 seats	18,071	2,454	13.6
2 engines, 7+ seats	9,271	2,502	27.0
Other Piston	389	338	86.9
Turboprop			
2 engines, 1-12 seats	2,986	584	19.6
2 engines, 13+ seats	584	191	32.7
Other Turboprop	132	131	99.2
Turbojet			
2 engines	2,383	541	22.7
Other Turbojet	551	376	68.2
Rotorcraft			
Piston	5,346	1,558	29.1
Turbine	3,024	625	20.7
Other	5,856	1,632	27.9
TOTAL	248,070	35,145	14.2

TABLE B-2. SAMPLE AND POPULATION DISTRIBUTIONS BY REGION OF REGISTERED AIRCRAFT

REGION	APPROXIMATE POPULATION	SAMPLE SIZE	SAMPLE AS % OF POPULATION
Alaskan	6,898	1,704	24.7
Central	16,670	2,132	12.8
Eastern	27,355	5,193	19.0
European (Foreign)	388	226	58.2
Great Lakes	43,624	4,316	9.9
New England	8,614	2,961	34.4
Northwestern	17,648	1,997	11.3
Pacific	825	480	58.2
Rocky Mountain	14,352	3,003	20.9
Southern	35,662	5,191	14.6
Southwestern	35,311	3,113	8.8
Western	40,584	4,827	11.9
TOTAL	248,070	35,145	14.2

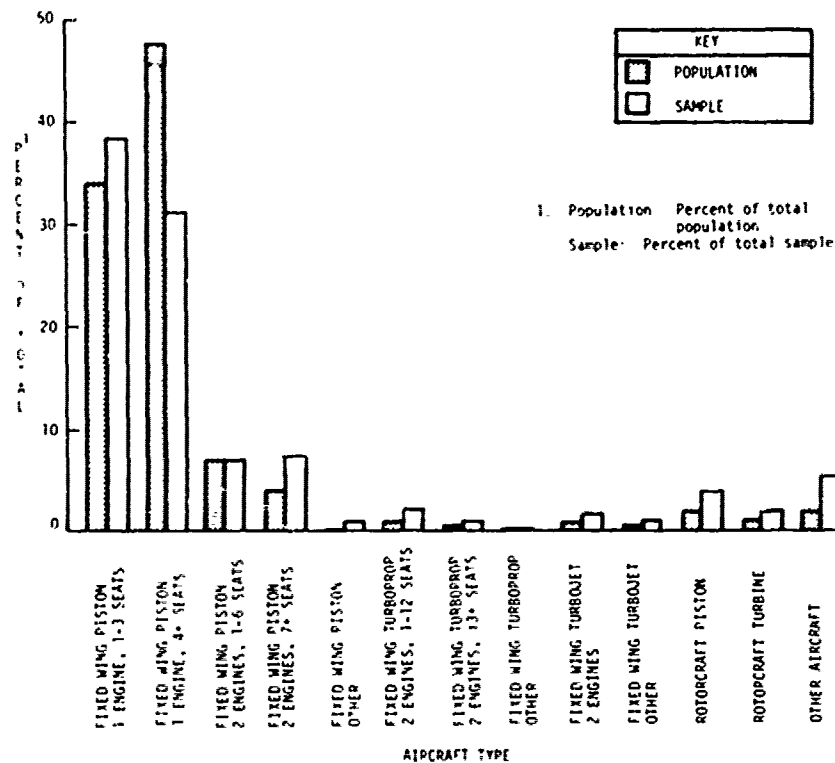


FIGURE B.1. COMPARISON OF POPULATION AND SAMPLE DISTRIBUTIONS BY AIRCRAFT TYPE

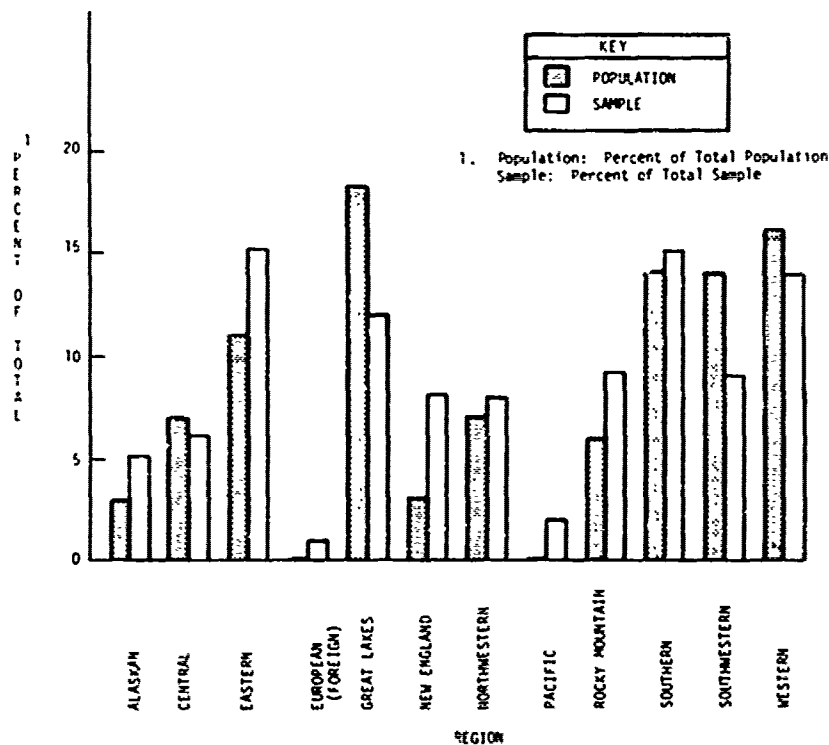


FIGURE B.2. COMPARISON OF POPULATION AND SAMPLE DISTRIBUTIONS BY REGION OF REGISTERED AIRCRAFT

- 1) State or territory of aircraft registration.
- 2) A variable called make-model index constructed from the thirteen aircraft types and the 300+ aircraft manufacturer/model groups of 20 or more general aviation aircraft as defined by the FAA's Service Difficulty Reporting (SDR) Program. (See Appendix D for the names and definitions of these groups.)

The 54 levels of the state criterion and the 330 levels of the make-model index yielded a matrix of 54 by 330 or 17,820 cells (strata) among which the frame was divided for sampling.

The FAA's primary requirement was for estimates of mean annual flight hours per aircraft, necessitating optimal determination of sample sizes based on flight hour variation by state and by make-model index, and not on population. Hence, the sample was not proportional to cell size, and a sampling fraction was determined for each cell with a non-zero population. Sampling was then performed systematically from a random start within individual cells.

Initially, each aircraft in the sample was given a weight which was the inverse of its cell's sampling fraction, and which corresponded to the number of aircraft in the sample frame represented by that aircraft. When all responses to the survey were tallied, each weight was adjusted according to the response rate for the aircraft's cell, counting an aircraft for which no survey questions were answered as a non-respondent and an aircraft for which at least one question was answered as a respondent. The weight adjustment is described below:

- 1) Non-respondents' weights were changed to zero.
- 2) The weights of all responding aircraft in cells where there were fewer than four telephone follow-up contacts were adjusted uniformly by dividing the initial weights by the response rate.
- 3) In cells where there were four or more telephone follow-up contacts, the weights of the mail respondents remained unchanged, and the weights of the telephone respondents were increased by dividing their initial weights by the proportion of non-respondents contacted by telephone.

This method of weight adjustment has several attributes. It actually incorporates the response rates into the final weights and simplifies estimation procedures. In addition, 3) above removes non-response bias from the affected make-model indices and states of registration by weighting the telephone sample of mail non-respondents to adjust for the remaining non-respondents.

B.3 ERROR

Errors associated with estimates derived from sample survey results fall into two categories: sampling and non-sampling errors.¹ Sampling errors occur because the estimates are based on a sample -- not the entire population. Non-sampling errors arise from a number of sources such as non-response, inability or unwillingness of respondents to provide correct information, differences in interpretation of questions, mistakes in recording or coding the data obtained, and others. The following sections discuss the two types of errors.

B.3.1 Sampling Error

In a designed survey, the sampling error associated with an estimate is generally unknown, but a measurable quantity known as the standard error is often used as a guide to the magnitude of sampling error. The standard error measures the variation which would occur among the estimates from all possible samples of the same design from the same population. It thus measures the precision with which an estimate approximates the average result of all possible samples or the result of a survey in which all elements of the population were sampled.

Through sample design techniques, the statistician can control the sizes of standard errors on a few key variables, known as design variables, in the survey. In the General Aviation Activity and Avionics Survey, the design variables were the mean annual hours flown per aircraft by aircraft type, by aircraft manufacturer/model group, and by state of aircraft registration. The sample was designed to produce standard errors on these variables at levels specified by the FAA. No controls were placed on the standard errors of the non-design variables.

Thus, every estimate resulting from a sample survey, whether it be for a design or non-design variable, has sampling error associated with it. The user of survey results must consider this error along with the point estimate itself when making inferences or drawing conclusions about the sample population. A large standard error relative to an estimate indicates lack of precision and, inversely, a small standard error indicates precision. To facilitate the comparison of estimates and their errors, the tables in Section 2 of this publication display standard errors for all estimated quantities. In some cases, the tables contain the percent standard error, which is the standard error divided by the corresponding estimate. The paragraphs below explain the proper interpretation and use of the errors.

¹Standards for Discussion and Presentation of Errors in Data, U.S. Department of Commerce, Bureau of the Census, (Washington DC, 1974), pp. 11-14.

An estimate and its standard error make it possible to construct an interval estimate with prescribed confidence that the interval will include the average value of the estimate from all possible samples of the population. Table B-3 below shows selected interval widths and their corresponding confidence.

TABLE B-3. CONFIDENCE OF INTERVAL ESTIMATES

WIDTH OF INTERVAL	APPROXIMATE CONFIDENCE THAT INTERVAL INCLUDES AVERAGE VALUE
1 Standard error	68%
2 Standard errors	95%
3 Standard errors	99%

As an example, from Table 2-6 a 95 percent confidence interval for the number of active rotorcraft with piston engines would be $3123 \pm 2(127)$ or (2869, 3377). One would say that the number of active rotorcraft with piston engines lies somewhere between 2869 and 3377 with 95 percent confidence.

B.3.2 Non-Sampling Error

Non-sampling error can be reduced through survey design, although the amount of reduction is difficult, if not impossible, to quantify in any given design. Nevertheless, through controlled experiments, various techniques have been identified which limit non-sampling error. Several of these techniques were incorporated into the design of the general aviation survey and are itemized below:

- The second mailing and telephone survey of a sample of non-respondents were conducted in addition to the original mailing to improve the response rate, since a low response rate is a major cause of non-sampling error. 71 percent of those aircraft sampled responded to at least one question of the survey. While acceptable, this rate nevertheless represents a decrease in response from 1977 when the survey achieved an 80 percent response rate and 1978 when the response rate was 74 percent. Possible causes of the decrease include:

- 1) The deterioration of aircraft owners' names and addresses in the Aircraft Registration Master File, the sample frame. This increased the number of questionnaires returned undelivered by the postmaster from around 500 in 1977 to over 1000 in 1978 to almost 2000 in 1979, hence decreasing the response rate.
- 2) Repeated sampling of aircraft in two and possibly three successive years. Due to the design of the sample to achieve specified precision in estimates for states and manufacturer/model groups of aircraft, it is impossible to avoid sampling some of the same aircraft in consecutive years. Owners of such aircraft may have been less willing to respond in 1979 than in 1978 and 1977.

Tables B-4 and B-5 show the response rates broken down by FAA region and aircraft type, respectively. The lowest response rate for any region was 21 percent for the European (Foreign) Region due to mail delivery and telephone contact difficulties. The Pacific and Alaskan Regions' rates were low at 57 and 58 percent respectively for similar reasons. These three regions together, however, represented only about 3 percent of the U.S. general aviation fleet. Twin engine fixed wing piston aircraft with 7 or more seats had the lowest response rate at 59 percent of any of the aircraft types, but these aircraft represented less than 4 percent of the fleet.

- The telephone sample of mail non-respondents also helped to minimize bias in results caused by differences in attributes between respondents and non-respondents.
- The survey questionnaire was designed and tested to minimize misinterpretation of questions by the aircraft owners.
- To assure the owners of the confidentiality of their responses, the questionnaire cover letter informed them that the intended use of the responses was "only to produce summary statistics and not to disclose individual operations nor to make changes to your aircraft records."¹
- Comprehensive editing procedures insured the accuracy of the data transcription to machine readable form and the internal consistency of responses.
- The official and most accurate source of information available on the general aviation fleet, the FAA Aircraft Registration Master File, was used as the sampling frame.

¹See Appendix A.1.

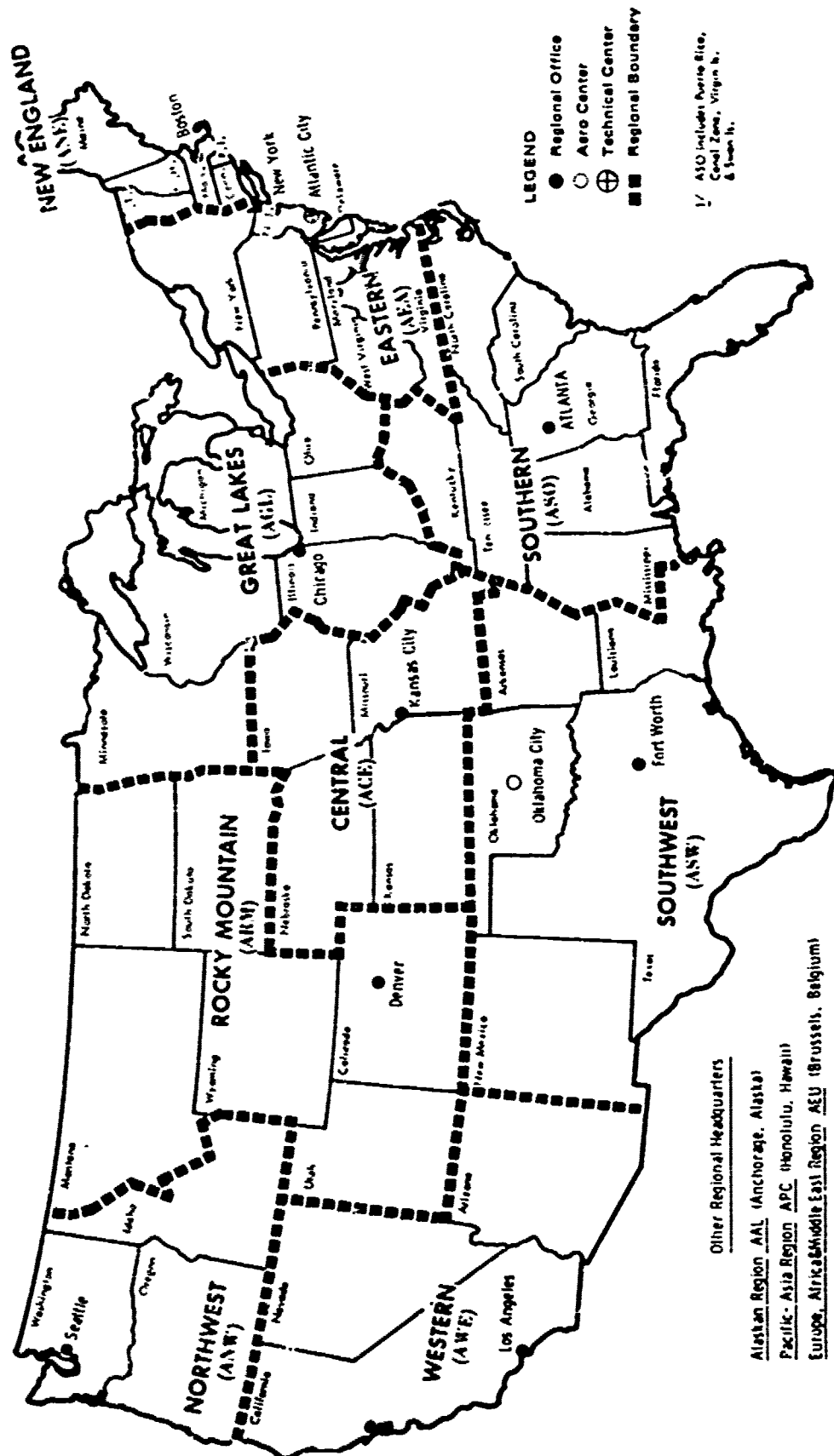
TABLE B-4. RESPONSE RATES BY REGION

REGION	RESPONSE RATE (%)	REGION	RESPONSE RATE (%)
Alaskan	58	Pacific	57
Central	75	Rocky Mountain	72
Eastern	73	Southern	69
European (Foreign)	21	Southwestern	72
Great Lakes	76	Western	72
New England	73		
Northwestern	69	TOTAL	71

TABLE B-5. RESPONSE RATES BY AIRCRAFT TYPE

AIRCRAFT TYPE	RESPONSE RATE (%)	AIRCRAFT TYPE	RESPONSE RATE (%)
Fixed Wing			
Piston		Turbojet	
1 engine, 1-3 seats	72	2 engines	85
1 engine, 4+ seats	71	Other	75
2 engines, 1-6 seats	70		
2 engines, 7+ seats	59	Rotorcraft	
Other	60	Piston	69
Turboprop		Turbine	78
2 engines, 1-12 seats	80	Other	75
2 engines, 13+ seats	84		
Other	75	TOTAL	71

APPENDIX C. FAA REGIONAL BOUNDARIES



APPENDIX D.

SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODE TABLE

This table shows the correspondence between the Service Difficulty Reporting (SDR) aircraft group names and the FAA aircraft manufacturer/model/series (MMS) codes and appears in alphabetical order by SDR name. The SDR names combine MMS codes for aircraft of similar design into groups for analytic purposes. The table contains entries for all the SDR names appearing in several of the tables in the body of this report.

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES

FAA	SDR	FAA	SDR	FAA	SDR
0050101	ADAMS A50S	2720305	AMD FALC20	0970101	AYRES S2
0050103	ADAMS A50S	2720306	AMD FALC20	0970102	AYRES S2
0050105	ADAMS A50S	2730103	AMD FALC20	0970104	AYRES S2
8680207	AEROSPSA316	8141617	ARCPNEH37	0970106	AYRES S2
8680209	AEROSPSA316	8142801	ARCRNEH37	7630202	AYRES S2
8680513	AEROSPSA316	1850202	ARCTICS1A	7630203	AYRES S2
8680515	AEROSPSA316	1850204	ARCTICS1A	7630204	AYRES S2
8680605	AEROSPSA316	1850206	ARCTICS1A	8380202	AYRES S2
8680615	AEROSPSA316	1850208	ARCTICS1A	8380204	AYRES S2
8680610	AEROSPSA341	1850210	ARCTICS1A	8380206	AYRES S2
1181414	AGUSTA205	1850212	ARCTICS1A	8380302	AYRES S2
0144202	AIRPTSA	1850214	ARCTICS1A	8380306	AYRES S2
0144204	AIRPTSA	1850216	ARCTICS1A	1480202	BAC 111
0144206	AIRPTSA	1850302	ARCTICS1B1	1480204	BAC 111
1850102	AIRPTSA	1850304	ARCTICS1B1	1480208	BAC 111
1850104	AIRPTSA	1850306	ARCTICS1B1	1480210	BAC 111
1850106	AIRPTSA	1850308	ARCTICS1B1	1480218	BAC 111
1850108	AIRPTSA	1850310	ARCTICS1B1	1480221	BAC 111
1850110	AIRPTSA	1850312	ARCTICS1B1	1480264	BAC 111
1850112	AIRPTSA	0191202	ARONCA15	1480268	BAC 111
1850114	AIRPTSA	0191204	ARONCA15	1480270	BAC 111
1850116	AIRPTSA	0190708	ARONCA65	1480273	BAC 111
1850118	AIRPTSA	0190710	ARONCA65	1480277	BAC 111
1850120	AIRPTSA	0190802	ARONCA65	1480283	BAC 111
1850122	AIRPTSA	0190902	ARONCA65	1121223	BAG 8206
4570424	AIRPTSA	0190904	ARONCA65	1121224	BAG 8206
4570602	AIRPTSA	0190906	ARONCA65	4230170	BAG DH125
4570604	AIRPTSA	0190908	ARONCA65	4130402	BAG HP137
4570606	AIRPTSA	0190910	ARONCA65	1050100	BALWKSFIREFY
4570608	AIRPTSA	0190912	ARONCA65	1050101	PALWKSFIREFY
4570610	AIRPTSA	0190914	ARONCA65	1050103	PALWKSFIREFY
4570612	AIRPTSA	0190916	ARONCA65	1050104	BALWKSFIREFY
4570614	AIRPTSA	0190918	ARONCA65	1050107	BALWKSFIREFY
4570616	AIRPTSA	0191014	ARONCA65	1152915	BEECH 100
4570618	AIRPTSA	0191016	ARONCA65	1152916	BEECH 100
4570620	AIRPTSA	0190302	ARONCAC3	1152917	BEECH 100
4570622	AIRPTSA	0190304	ARONCAC3	1152919	BEECH 100
4570624	AIRPTSA	0191002	ARONCA058	1150502	BEECH 17
0440132	AIRSPC18	0191004	ARONCA058	1150504	BEECH 17
0440104	AIRSPC18	0191006	ARONCA058	1150506	BEECH 17
9200732	AIRSPC18	0191008	ARONCA058	1150508	BEECH 17
0390101	AIRTRCAT300	0191010	ARONCA058	1150510	BEECH 17
0390103	AIRTRCAT300	0191012	ARONCA058	1150512	BEECH 17
0390104	AIRTRCAT300	0143002	AYRES S2	1150514	BEECH 17
*FALC10	AMD FALC10	0143004	AYRES S2	1150516	BEECH 17
2730101	AMD FALC10	0143006	AYRES S2	1150518	BEECH 17
*FALC20	AMD FALC20	0143008	AYRES S2	1150520	BEECH 17
2720302	AMD FALC20	0143010	AYRES S2	1150522	BEECH 17
2720303	AMD FALC20	0143012	AYRES S2	1150524	BEECH 17
2720304	AMD FALC20	0143022	AYRES S2	1150526	BEECH 17

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

FAA	SDR	FAA	SDR	FAA	SDR
1150528	BEECH 17	1151010	BEECH 18	1151514	BEECH 35
1150530	BEECH 17	1151011	BEECH 18	1151516	BEECH 35
1150532	BEECH 17	1151012	BEECH 18	1151518	BEECH 35
1150534	BEECH 17	1151013	BEECH 18	1151520	BEECH 35
1150536	BEECH 17	1151014	BEECH 18	1151522	BEECH 35
1150538	BEECH 17	1151015	BEECH 18	1151524	BEECH 35
1150540	BEECH 17	1151016	BEECH 18	1151526	BEECH 35
1150542	BEECH 17	1151018	BEECH 18	1151528	BEECH 35
1150544	BEECH 17	1151019	BEECH 18	1151530	BEECH 35
1150546	BEECH 17	1151020	BEECH 18	1151532	BEECH 35
1150548	BEECH 17	1151021	BEECH 18	1151538	BEECH 35
1150550	BEECH 17	1151022	BEECH 18	1151540	BEECH 35
1150552	BEECH 17	1151023	BEECH 18	1151544	BEECH 35
1150554	BEECH 17	1151024	BEECH 18	1151546	BEECH 35
1150556	BEECH 17	1151026	BEECH 18	1151548	BEECH 35
1150558	BEECH 17	1151040	BEECH 18	1151550	BEECH 35
1150560	BEECH 17	1151042	BEECH 18	1151602	BEECH 36
1150562	BEECH 17	1151044	BEECH 18	1151603	BEECH 36
1150564	BEECH 17	1151046	BEECH 18	1151604	BEECH 36
1150202	BEECH 18	1151048	BEECH 18	1151605	BEECH 36
1150204	BEECH 18	1151050	BEECH 18	1151606	BEECH 36
1150602	BEECH 18	1151102	BEECH 18	1151607	BEECH 36
1150604	BEECH 18	1152920	BEECH 200	1152002	BEECH 45
1150702	BEECH 18	1152926	BEECH 200	1152004	BEECH 45
1150704	BEECH 18	1152928	BEECH 200	1152006	BEECH 45
1150706	BEECH 18	1151202	BEECH 23	1152008	BEECH 45
1150708	BEECH 18	1151204	BEECH 23	1152010	BEECH 45
1150710	BEECH 18	1151209	BEECH 23	1152012	BEECH 45
1150712	BEECH 18	1151212	BEECH 23	1152013	BEECH 45
1150802	BEECH 18	1151214	BEECH 23	1152014	BEECH 45
1150804	BEECH 18	1151215	BEECH 23	1152015	BEECH 45
1150806	BEECH 18	1151216	BEECH 23	1152016	BEECH 45
1150808	BEECH 18	1151226	BEECH 23	1152502	BEECH 50
1150902	BEECH 18	1151230	BEECH 23	1152504	BEECH 50
1150904	BEECH 18	1151240	BEECH 23	1152506	BEECH 50
1150906	BEECH 18	1151242	BEECH 23	1152508	BEECH 50
1150907	BEECH 18	1151250	BEECH 23	1152510	BEECH 50
1150908	BEECH 18	1151252	BEECH 23	1152512	BEECH 50
1150909	BEECH 18	1151253	BEECH 23	1152514	BEECH 50
1150910	BEECH 18	1151254	BEECH 23	1152516	BEECH 50
1150911	BEECH 18	1151402	BEECH 33	1152518	BEECH 50
1150912	BEECH 18	1151404	BEECH 33	1152520	BEECH 50
1150913	BEECH 18	1151406	BEECH 33	1152522	BEECH 50
1150914	BEECH 18	1151408	BEECH 33	1152524	BEECH 50
1150916	BEECH 18	1151410	BEECH 33	1152526	BEECH 50
1150918	BEECH 18	1151414	BEECH 33	1152528	BEECH 50
1150920	BEECH 18	1151418	BEECH 33	1152530	BEECH 50
1150922	BEECH 18	1151422	BEECH 33	1152532	BEECH 50
1150924	BEECH 18	1151423	BEECH 33	1152534	BEECH 50
1150926	BEECH 18	1151424	BEECH 33	1152536	BEECH 50
1150928	BEECH 18	1151425	BEECH 33	1152702	BEECH 55
1150930	BEECH 18	1151432	BEECH 33	1152704	BEECH 55
1150932	BEECH 18	1151434	BEECH 33	1152706	BEECH 55
1151001	BEECH 18	1151435	BEECH 33	1152708	BEECH 55
1151002	BEECH 18	1151502	BEECH 35	1152728	BEECH 55
1151004	BEECH 18	1151504	BEECH 35	1152729	BEECH 55
1151006	BEECH 18	1151506	BEECH 35	1152730	BEECH 55
1151007	BEECH 18	1151508	BEECH 35	1152732	BEECH 55
1151008	BEECH 18	1151510	BEECH 35	1152736	BEECH 56
1151009	BEECH 18	1151512	BEECH 35	1152738	BEECH 56

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

FAA	SDR	FAA	SDR	FAA	SDR
1152740	BEECH 58	1180804	BELL 47	1181037	BELL 47
1152744	BEECH 58	1180806	BELL 47	1181060	BELL 47
1152746	BEECH 58	1180808	BELL 47	1181063	BELL 47
1153602	BEECH 60	1180810	BELL 47	1181064	BELL 47
1153604	BEECH 60	1180811	BELL 47	1181065	BELL 47
1153605	BEECH 60	1180812	BELL 47	1181066	BELL 47
1152802	BEECH 65	1180813	BELL 47	1181067	BELL 47
1152803	BEECH 65	1180814	BELL 47	1181068	BELL 47
1152804	BEECH 65	1180816	BELL 47	1181070	BELL 47
1152805	BEECH 65	1180820	BELL 47	1181071	BELL 47
1153005	BEECH 76	1180822	BELL 47	1181073	BELL 47
1153007	BEECH 77	1180843	BELL 47	1181102	BELL 47
1152806	BEECH 80	1180844	BELL 47	1181103	BELL 47
1152807	BEECH 80	1180845	BELL 47	1181104	BELL 47
1152808	BEECH 80	1180846	BELL 47	1181106	BELL 47
1152809	BEECH 80	118084C	BELL 47	1181202	BELL 47
1152812	BEECH 80	118084D	BELL 47	1181310	BELL 47
1152814	BEECH 80	118084E	BELL 47	1181403	BELL 47
1153010	BEECH 80	118084F	BELL 47	1181585	BELL 47
1152902	BEECH 90	118084G	BELL 47	2390101	BELL 47
1152904	BEECH 90	118084H	BELL 47	2390202	BELL 47
1152908	BEECH 90	118084K	BELL 47	8930103	BELL 47
1152912	BEECH 90	118084M	BELL 47	0191102	BLANCA11
1152913	BEECH 90	118084P	BELL 47	0191104	BLANCA11
1152914	BEECH 90	118084R	BELL 47	0191106	BLANCA11
1153409	BEECH 90	118084V	BELL 47	0191108	BLANCA11
1153402	BEECH 95	1180902	BELL 47	0191110	BLANCA11
1153404	BEECH 95	1180904	BELL 47	0191112	BLANCA11
1153406	BEECH 95	1181001	BELL 47	9140404	BLANCA11
1153408	BEECH 95	1181002	BELL 47	9140408	BLANCA11
1153410	BEECH 95	1181003	BELL 47	1201002	BLANCA1413
1153802	BEECH 99	1181004	BELL 47	1201004	BLANCA1413
1154002	BEECH 99	1181005	BELL 47	1201006	BLANCA1413
1154004	BEECH 99	1181006	BELL 47	1201008	BLANCA1413
1181402	BELL 204	1181007	BELL 47	1220402	BLANCA1419
1181404	BELL 204	1181008	BELL 47	1220404	BLANCA1419
1181405	BELL 204	1181009	BELL 47	1220406	BLANCA1419
1181408	BELL 204	118100V	BELL 47	1220408	BLANCA1419
1181410	BELL 204	1181010	BELL 47	3080102	BLANCA1419
1181411	BELL 204	1181011	BELL 47	3080104	BLANCA1419
9680101	BELL 206	1181012	BELL 47	3080106	BLANCA1419
9680102	BELL 204	1181013	BELL 47	3080108	BLANCA1419
1181502	BELL 206	1181014	BELL 47	3080112	BLANCA1419
1181503	BELL 206	1181016	BELL 47	3080114	BLANCA1419
1181504	BELL 206	1181019	BELL 47	3080116	BLANCA1419
1181508	BELL 206	1181020	BELL 47	3080118	BLANCA1419
1181510	BELL 206	1181022	BELL 47	3080122	BLANCA1419
1181511	BELL 206	1181023	BELL 47	3080124	BLANCA1419
1181512	BELL 206	1181024	BELL 47	3080126	BLANCA1419
1181522	BELL 206	1181025	BELL 47	3080128	BLANCA1419
1181579	BELL 206	1181026	BELL 47	4580802	BLANCA1419
1182107	BELL 206	1181027	BELL 47	4580804	BLANCA1419
1181420	BELL 212	1181028	BELL 47	4580806	BLANCA1419
11806G2	BELL 47	1181029	BELL 47	4580808	BLANCA1419
1180603	BELL 47	1181030	BELL 47	1220432	BLANCA17
1180604	BELL 47	1181031	BELL 47	1220433	BLANCA17
1180606	BELL 47	1181032	BELL 47	1220434	BLANCA17
1180702	BELL 47	1181033	BELL 47	1220435	BLANCA17
1180704	BELL 47	1181034	BELL 47	1220436	BLANCA17
1180802	BELL 47	118103M	BELL 47	1220437	BLANCA17

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

FAA	SDR	FAA	SDR	FAA	SDR
1220940	BLANCA17	21101NS	BLANCA7	138366M	BOEING707
0190107	BLANCA7	21101NX	BLANCA7	138366P	BOEING707
1220438	3LANCA7	21101P3	BLANCA7	1383677	BOEING707
1220460	BLANCA7	21101PC	BLANCA7	138367A	BOEING707
1220501	BLANCA7	21101PH	BLANCA7	138367B	BOEING707
1220601	BLANCA7	21101PK	BLANCA7	138367C	BOEING707
1220701	BLANCA7	21101PN	BLANCA7	138367D	BOEING707
2110102	BLANCA7	21101PT	BLANCA7	138367E	BOEING707
2110104	BLANCA7	21101PY	3LANCA7	138367F	BOEING707
2110106	BLANCA7	1220801	BLANCA8	138367G	BOEING707
2110108	BLANCA7	1220803	BLANCA8	138367H	BOEING707
2110110	BLANCA7	2110612	BLANCA8	138367J	BOEING707
2110112	BLANCA7	1520202	3NORM BN2	138367X	BOEING707
2110114	BLANCA7	1520204	3NORM BN2	138367L	BOEING707
2110116	3LANCA7	1520206	3NORM BN2	138367M	BOEING707
2110118	BLANCA7	1520207	3NORM BN2	138367N	BOEING707
2110120	3LANCA7	1520209	3NORM BN2	138367P	BOEING707
2110122	BLANCA7	1520210	3NORM BN2	138367Q	BOEING707
2110124	BLANCA7	1520215	3NORM BN2	138367R	BOEING707
2110126	BLANCA7	1520220	3NORM BN2	138367S	BOEING707
2110128	BLANCA7	1520221	3NORM BN2	138367T	BOEING707
2110130	BLANCA7	1520226	3NORM BN2	138367U	BOEING707
2110132	BLANCA7	1520227	3NORM BN2	138367V	BOEING707
2110133	BLANCA7	1383601	BOEING707	138367W	BOEING707
2110134	BLANCA7	1383602	BOEING707	138367X	BOEING707
2110136	3LANCA7	1383604	BOEING707	138367Y	BOEING707
2110138	BLANCA7	1383605	BOEING707	1383688	BOEING707
2110140	BLANCA7	1383606	BOEING707	138368D	BOEING707
2110142	BLANCA7	1383608	BOEING707	138368F	BOEING707
2110144	BLANCA7	1383609	BOEING707	138368H	BOEING707
2110146	BLANCA7	138360C	BOEING707	138368K	BOEING707
2110148	BLANCA7	138360F	BOEING707	138368M	BOEING707
2110150	BLANCA7	138360H	BOEING707	138369R	BOEING707
2110152	BLANCA7	138360K	BOEING707	1383701	BOEING707
2110154	BLANCA7	138360N	BOEING707	1383706	BOEING707
2110156	BLANCA7	138360P	BOEING707	1384001	BOEING727
2110158	BLANCA7	138360R	BOEING707	1384002	BOEING727
2110160	BLANCA7	138360T	BOEING707	1384003	BOEING727
2110162	BLANCA7	138360V	BOEING707	1384004	BOEING727
2110164	BLANCA7	138360X	BOEING707	1384005	BOEING727
2110166	BLANCA7	1383610	BOEING707	1384006	BOEING727
2110168	BLANCA7	1383612	BOEING707	1384008	BOEING727
2110170	BLANCA7	1383614	BOEING707	138400B	BOEING727
2110172	BLANCA7	1383616	BOEING707	138400C	BOEING727
2110174	BLANCA7	1383618	BOEING707	138400E	BOEING727
2110176	BLANCA7	138361G	BOEING707	138400F	BOEING727
21101M2	BLANCA7	1383658	BOEING707	138400G	BOEING727
21101M6	3LANCA7	138365D	BOEING707	138400H	BOEING727
21101M4	BLANCA7	138365F	BOEING707	138400J	BOEING727
21101M5	BLANCA7	138365H	BOEING707	138400K	BOEING727
21101ML	BLANCA7	138365K	BOEING707	138400M	BOEING727
21101MR	BLANCA7	1383660	BOEING707	1384010	BOEING727
21101MW	BLANCA7	1383663	BOEING707	1384011	BOEING727
21101N2	BLANCA7	1383663	BOEING707	1384012	BOEING727
21101N7	BLANCA7	1383668	BOEING707	1384013	BOEING727
21101NE	BLANCA7	138366C	BOEING707	1384014	BOEING727
21101N8	BLANCA7	138366D	BOEING707	1384015	BOEING727
21101N9	BLANCA7	138366F	BOEING707	1384016	BOEING727
21101NM	BLANCA7	138366H	BOEING707	1384017	BOEING727
21101NN	3LANCA7	138366K	BOEING707	1384018	BOEING727

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

FAA	SDR	FAA	SDR	FAA	SDR
1384019	BOEING727	1384457	BOEING737	1380204	BOEING817
1384025	BOEING727	1384458	BOEING737	1380206	BOEING817
1384027	BOEING727	1384459	BOEING737	1380208	BOEING817
1384028	BOEING727	1384461	BOEING737	1406006	BOLKMS105
138402C	BOEING727	1384466	BOEING737	5626005	BOLKMS105
1384030	BOEING727	1384469	BOEING737	5626006	BOLKMS105
1384032	BOEING727	138446A	BOEING737	4230101	BRAERODH125
1384035	BOEING727	1384473	BOEING737	4230106	BRAERODH125
138403T	BOEING727	1384476	BOEING737	4230110	BRAERODH125
1384041	BOEING727	1384477	BOEING737	4230126	BRAERODH125
1384043	BOEING727	1384478	BOEING737	4230138	BRAERODH125
1384044	BOEING727	1384479	BOEING737	423013M	BRAERODH125
138404G	BOEING727	1384480	BOEING737	423013P	BRAERODH125
138404V	BOEING727	1384484	BOEING737	4230140	BRAERODH125
138404Z	BOEING727	1384488	BOEING737	4490102	BRASOVIS20
1384056	BOEING727	138448A	BOEING737	1461202	BRWSTFLEET2
1384057	BOEING727	138448B	BOEING737	1461204	BRWSTFLEET2
1384058	BOEING727	138448C	BOEING737	1461502	BRWSTFLEET7
1384059	BOEING727	138448D	BOEING737	1461504	BRWSTFLEET7
1384063	BOEING727	138448E	BOEING737	1461506	BRWSTFLEET7
1384067	BOEING727	138448F	BOEING737	1461512	BRWSTFLEET7
138406G	BOEING727	138448J	BOEING737	1461514	BRWSTFLEET7
138406N	BOEING727	138448K	BOEING737	1461516	BRWSTFLEET7
1384073	BOEING727	138448M	BOEING737	1880104	CAMRONMODELO
1384074	BOEING727	138448N	BOEING737	1880106	CAMRONMODELO
1384075	BOEING727	138448P	BOEING737	1880108	CAMRONMODELO
1384076	BOEING727	138448R	BOEING737	1880110	CAMRONMODELO
1384077	BOEING727	138448T	BOEING737	1880112	CAMRONMODELO
1384078	BOEING727	138448W	BOEING737	1880120	CAMRONMODELO
1384079	BOEING727	138448Y	BOEING737	1880201	CAMRONMODELO
138407E	BOEING727	1380102	BOEING75	1880202	CAMRONMODELO
138407F	BOEING727	1380104	BOEING75	1880204	CAMRONMODELO
138407K	BOEING727	1380106	BOEING75	2071402	CESSNA120
138407L	BOEING727	1380108	BOEING75	2071602	CESSNA140
138407M	BOEING727	1380110	BOEING75	2071604	CESSNA140
138407N	BOEING727	1380112	BOEING75	2071802	CESSNA150
138407P	BOEING727	1380114	BOEING75	2071804	CESSNA150
138407Q	BOEING727	1380116	BOEING75	2071806	CESSNA150
138407R	BOEING727	1380118	BOEING75	2071808	CESSNA150
138407S	BOEING727	1380120	BOEING75	2071810	CESSNA150
138407T	BOEING727	1380121	BOEING75	2071812	CESSNA150
1384080	BOEING727	1380122	BOEING75	2071814	CESSNA150
1384082	BOEING727	1380124	BOEING75	2071816	CESSNA150
138408B	BOEING727	1380128	BOEING75	2071818	CESSNA150
138408D	BOEING727	1380130	BOEING75	2071820	CESSNA150
138408F	BOEING727	1380131	BOEING75	2071822	CESSNA150
138408H	BOEING727	1380132	BOEING75	2071824	CESSNA150
138408L	BOEING727	1380134	BOEING75	2071826	CESSNA150
138408M	BOEING727	1380136	BOEING75	2071828	CESSNA150
138408N	BOEING727	1380137	BOEING75	2071830	CESSNA150
138408W	BOEING727	1380138	BOEING75	2071831	CESSNA150
138408X	BOEING727	1380140	BOEING75	2071835	CESSNA150
13840X2	BOEING727	1380142	BOEING75	2071836	CESSNA150
13840XY	BOEING727	1380144	BOEING75	2072302	CESSNA170
1384402	BOEING737	1380146	BOEING75	2072304	CESSNA170
1384404	BOEING737	1380148	BOEING75	2072306	CESSNA170
1384435	BOEING737	1380150	BOEING75	2072202	CESSNA172
1384438	BOEING737	1380152	BOEING75	2072402	CESSNA172
1384453	BOEING737	1380154	BOEING75	2072404	CESSNA172
1384454	BOEING737	1380202	BOEING817	2072406	CESSNA172

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

FAA	SDR	FAA	SDR	FAA	SDR
2072408	CESSNA172	2075816	CESSNA182	2073402	CESSNA210
2072410	CESSNA172	2072802	CESSNA185	2073403	CESSNA210
2072412	CESSNA172	2072804	CESSNA185	2073404	CESSNA210
2072413	CESSNA172	2072806	CESSNA185	2073406	CESSNA210
2072414	CESSNA172	2072808	CESSNA185	2073408	CESSNA210
2072416	CESSNA172	2072812	CESSNA185	2073410	CESSNA210
2072417	CESSNA172	2072816	CESSNA185	2073412	CESSNA210
2072418	CESSNA172	2072818	CESSNA185	2073414	CESSNA210
2072420	CESSNA172	2072820	CESSNA185	2073416	CESSNA210
2072421	CESSNA172	2072821	CESSNA185	2073418	CESSNA210
2072424	CESSNA172	2073002	CESSNA188	2073422	CESSNA210
2072425	CESSNA172	2073004	CESSNA188	2073430	CESSNA210
2072426	CESSNA172	2073005	CESSNA188	2073432	CESSNA210
2072428	CESSNA172	2073006	CESSNA188	2073436	CESSNA210
2072429	CESSNA172	2073007	CESSNA188	2073438	CESSNA210
2072430	CESSNA172	2073008	CESSNA188	2073439	CESSNA210
2072431	CESSNA172	2073010	CESSNA188	2073440	CESSNA210
2072432	CESSNA172	2073012	CESSNA188	2073446	CESSNA210
2072434	CESSNA172	2072902	CESSNA190	2073447	CESSNA210
2072438	CESSNA172	2073102	CESSNA195	2073448	CESSNA210
2072443	CESSNA172	2073104	CESSNA195	2073449	CESSNA210
2072502	CESSNA175	2073106	CESSNA195	2073450	CESSNA210
2072504	CESSNA175	2073108	CESSNA195	2073451	CESSNA210
2072506	CESSNA175	2073110	CESSNA195	2073453	CESSNA210
2072508	CESSNA175	2073112	CESSNA195	2073454	CESSNA210
2073704	CESSNA177	2073302	CESSNA206	2073456	CESSNA210
2073706	CESSNA177	2073304	CESSNA206	2073902	CESSNA305
2073708	CESSNA177	2073306	CESSNA206	2074001	CESSNA305
2073709	CESSNA177	2073308	CESSNA206	2074002	CESSNA305
2072602	CESSNA180	2073309	CESSNA206	2074003	CESSNA305
2072604	CESSNA180	2073310	CESSNA206	2074004	CESSNA305
2072606	CESSNA180	2073311	CESSNA206	2074005	CESSNA305
2072608	CESSNA180	2073312	CESSNA206	2074006	CESSNA305
2072610	CESSNA180	2073313	CESSNA206	2074008	CESSNA305
2072612	CESSNA180	2073316	CESSNA206	2074010	CESSNA305
2072614	CESSNA180	2073317	CESSNA206	2074012	CESSNA305
2072616	CESSNA180	2073318	CESSNA206	2074014	CESSNA305
2072618	CESSNA180	2073319	CESSNA206	2074016	CESSNA305
2072622	CESSNA180	2073322	CESSNA206	2074018	CESSNA305
2072624	CESSNA180	2073324	CESSNA206	2074028	CESSNA305
2072702	CESSNA182	2073332	CESSNA206	2074030	CESSNA305
2072704	CESSNA182	2073333	CESSNA206	2074032	CESSNA305
2072706	CESSNA182	2073334	CESSNA206	2074080	CESSNA305
2072708	CESSNA182	2073338	CESSNA206	207408E	CESSNA305
2072710	CESSNA182	2073340	CESSNA206	207408K	CESSNA305
2072712	CESSNA182	2073342	CESSNA206	2074202	CESSNA310
2072714	CESSNA182	2073344	CESSNA206	2074204	CESSNA310
2072716	CESSNA182	2073346	CESSNA206	2074206	CESSNA310
2072718	CESSNA182	2073348	CESSNA206	2074208	CESSNA310
2072722	CESSNA182	2073350	CESSNA206	2074210	CESSNA310
2072724	CESSNA182	2073352	CESSNA206	2074212	CESSNA310
2072726	CESSNA182	2073353	CESSNA206	2074214	CESSNA310
2072728	CESSNA182	2073356	CESSNA206	2074216	CESSNA310
2072730	CESSNA182	2073357	CESSNA206	2074218	CESSNA310
2072732	CESSNA182	2073602	CESSNA207	2074220	CESSNA310
2072734	CESSNA182	2073604	CESSNA207	2074222	CESSNA310
2072735	CESSNA182	2073612	CESSNA207	2074224	CESSNA310
2075802	CESSNA182	2073614	CESSNA207	2074226	CESSNA310
2075806	CESSNA182	2073202	CESSNA210	2074228	CESSNA310
2075814	CESSNA182	2073204	CESSNA210	2074230	CESSNA310

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

FAA	SDR	FAA	SDR	FAA	SDR
2074234	CESSNA310	2071305	CESSNAT50	2621012	CURTISTRVAIR
2074235	CESSNA310	2071306	CESSNAT50	2621102	CURTISTRVAIR
2074240	CESSNA310	2071307	CESSNAT50	2621104	CURTISTRVAIR
2074242	CESSNA310	2071308	CESSNAT50	2621106	CURTISTRVAIR
2074244	CESSNA310	2070402	CESSNAUC77	2621108	CURTISTRVAIR
2074245	CESSNA310	2070702	CESSNAUC77	2621202	CURTISTRVAIR
2074246	CESSNA310	2070704	CESSNAUC77	2621204	CURTISTRVAIR
2074502	CESSNA320	2070802	CESSNAUC77	2621302	CURTISTRVAIR
2074504	CESSNA320	2070804	CESSNAUC77	2621304	CURTISTRVAIR
2074506	CESSNA320	2070806	CESSNAUC77	2621306	CURTISTRVAIR
2074508	CESSNA320	2070902	CESSNAUC94	2621308	CURTISTRVAIR
2074510	CESSNA320	2071002	CESSNAUC94	2621402	CURTISTRVAIR
2074512	CESSNA320	2071102	CESSNAUC94	2621404	CURTISTRVAIR
2074514	CESSNA320	2071104	CESSNAUC94	2621406	CURTISTRVAIR
2074516	CESSNA320	0110201	CHILD S2	2621408	CURTISTRVAIR
2075602	CESSNA336	2370602	COMWTH185	2621502	CURTISTRVAIR
2075702	CESSNA337	2370604	COMWTH185	2621504	CURTISTRVAIR
2075703	CESSNA337	2370606	COMWTH185	2621506	CURTISTRVAIR
2075704	CESSNA337	2400102	CONAERLA4	2621508	CURTISTRVAIR
2075706	CESSNA337	2400108	CONAERLA4	2621602	CURTISTRVAIR
2075707	CESSNA337	2400110	CONAERLA4	2621604	CURTISTRVAIR
2075708	CESSNA337	5110102	CONAERLA4	2621606	CURTISTRVAIR
2075712	CESSNA337	5110104	CONAERLA4	2621608	CURTISTRVAIR
2075714	CESSNA337	5110202	CONAERLA4	2621702	CURTISTRVAIR
2075717	CESSNA337	5110204	CONAERLA4	2621704	CURTISTRVAIR
2075719	CESSNA337	5110302	CONAERLA4	2621802	CURTISTRVAIR
2075721	CESSNA337	5110304	CONAERLA4	2621804	CURTISTRVAIR
2075723	CESSNA337	5110306	CONAERLA4	2621806	CURTISTRVAIR
2075724	CESSNA337	5110308	CONAERLA4	2621808	CURTISTRVAIR
2075725	CESSNA337	5110310	CONAERLA4	2621810	CURTISTRVAIR
2075726	CESSNA337	5110312	CONAERLA4	2621812	CURTISTRVAIR
2075727	CESSNA337	5110314	CONAERLA4	2621814	CURTISTRVAIR
2075730	CESSNA337	5110316	CONAERLA4	2621816	CURTISTRVAIR
2075731	CESSNA337	2622601	CURTISC46	2621818	CURTISTRVAIR
2075732	CESSNA337	2622602	CURTISC46	2621820	CURTISTRVAIR
2075733	CESSNA337	2622604	CURTISC46	2621822	CURTISTRVAIR
2076404	CESSNA340	2622606	CURTISC46	2621824	CURTISTRVAIR
2076405	CESSNA340	2622608	CURTISC46	2621826	CURTISTRVAIR
207590C	CESSNA401	2622610	CURTISC46	2621828	CURTISTRVAIR
207590D	CESSNA401	2622624	CURTISC46	2621830	CURTISTRVAIR
207590E	CESSNA401	2622701	CURTISC46	2621832	CURTISTRVAIR
207590A	CESSNA402	2622702	CURTISC46	2621902	CURTISTRVAIR
207590L	CESSNA402	2622704	CURTISC46	2621904	CURTISTRVAIR
207590M	CESSNA402	2622706	CURTISC46	2621906	CURTISTRVAIR
207590P	CESSNA402	2622708	CURTISC46	2621908	CURTISTRVAIR
207590Q	CESSNA402	2622710	CURTISC46	2423302	CVAC 22
2075901	CESSNA404	2622750	CURTISC46	2423304	CVAC 22
2075902	CESSNA411	2620502	CURTISJR	3790104	CVAC 22
2075904	CESSNA411	2620802	CURTISROBIN	2422601	CVAC 240
2075907	CESSNA414	2620804	CURTISROBIN	2422602	CVAC 240
2075908	CESSNA414	2620806	CURTISROBIN	2422604	CVAC 240
2076010	CESSNA421	2620808	CURTISROBIN	2422606	CVAC 240
2076012	CESSNA421	2620810	CURTISROBIN	2422608	CVAC 240
2076014	CESSNA421	2620812	CURTISROBIN	2422610	CVAC 240
2076016	CESSNA421	2620814	CURTISROBIN	2422612	CVAC 240
2076020	CESSNA441	2621002	CURTISTRVAIR	2422614	CVAC 240
2076602	CESSNA500	2621004	CURTISTRVAIR	2422616	CVAC 240
2076604	CESSNA500	2621006	CURTISTRVAIR	2422618	CVAC 240
2071302	CESSNAT50	2621008	CURTISTRVAIR	2422620	CVAC 240
2071304	CESSNAT50	2621010	CURTISTRVAIR	2422622	CVAC 240

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

FAA	SDR	FAA	SDR	FAA	SDR
2422624	CVAC 240	2801736	DHAV DHC1	3021443	DOUG DC3
2422626	CVAC 240	2901738	DHAV DHC1	3021444	DOUG DC3
2422628	CVAC 240	2801739	DHAV DHC1	3021445	DOUG DC3
2422630	CVAC 240	*DHC2	DHAV DHC2	3021446	DOUG DC3
2422632	CVAC 240	2900102	DHAV DHC2	3021447	DOUG DC3
2422633	CVAC 240	2800103	DHAV DHC2	3021448	DOUG DC3
2422634	CVAC 240	2800104	DHAV DHC2	3021449	DOUG DC3
2422636	CVAC 240	2800105	DHAV DHC2	3021450	DOUG DC3
2422638	CVAC 240	2800106	DHAV DHC2	3021451	DOUG DC3
2422640	CVAC 240	2800107	DHAV DHC2	3021452	DOUG DC3
2422642	CVAC 240	2800108	DHAV DHC2	3021453	DOUG DC3
2422644	CVAC 240	2800109	DHAV DHC2	3021454	DOUG DC3
2422645	CVAC 240	2800115	DHAV DHC2	3021455	DOUG DC3
2422646	CVAC 240	2801830	DHAV DHC2	3021456	DOUG DC3
2422647	CVAC 240	2801832	DHAV DHC2	3021457	DOUG DC3
2422648	CVAC 240	*DHC3	DHAV DHC3	3021458	DOUG DC3
2422702	CVAC 340	2800202	DHAV DHC3	3021459	DOUG DC3
2422704	CVAC 340	2801002	DHAVXXDH82	3021460	DOUG DC3
2422706	CVAC 340	2801006	DHAVXXDH82	3021461	DOUG DC3
2422708	CVAC 340	2801020	DHAVXXDH92	3021462	DOUG DC3
242270A	CVAC 340	3020502	DOUG A26	3021463	DOUG DC3
242270H	CVAC 340	3020504	DOUG A26	3021464	DOUG DC3
2422712	CVAC 340	3020506	DOUG A26	3021466	DOUG DC3
2422714	CVAC 340	3020510	DOUG A26	3021467	DOUG DC3
2422716	CVAC 340	3020512	DOUG A26	3021468	DOUG DC3
2422718	CVAC 340	3020514	DOUG A26	3021469	DOUG DC3
2422742	CVAC 340	3020516	DOUG A26	302146T	DOUG DC3
2422750	CVAC 440	3020518	DOUG A26	302146X	DOUG DC3
2422902	CVAC 440	3020524	DOUG A26	302146Y	DOUG DC3
2422904	CVAC 440	3020525	DOUG A26	302146Z	DOUG DC3
2423004	CVAC 440	3020526	DOUG A26	3021470	DOUG DC3
2420202	CVAC BT13	3020527	DOUG A26	3021471	DOUG DC3
2420204	CVAC BT13	3021401	DOUG DC3	3021472	DOUG DC3
2420206	CVAC BT13	3021402	DOUG DC3	3021473	DOUG DC3
2420208	CVAC BT13	3021404	DOUG DC3	3021474	DOUG DC3
2420210	CVAC BT13	3021406	DOUG DC3	3021476	DOUG DC3
2420222	CVAC BT13	3021410	DOUG DC3	3021478	DOUG DC3
2420224	CVAC BT13	3021412	DOUG DC3	302147H	DOUG DC3
2420226	CVAC BT13	3021414	DOUG DC3	3021480	DOUG DC3
2420228	CVAC BT13	3021416	DOUG DC3	3021502	DOUG DC4
2420230	CVAC BT13	3021418	DOUG DC3	3021504	DOUG DC4
2420702	CVAC L13	3021420	DOUG DC3	3021506	DOUG DC4
2420704	CVAC L13	3021422	DOUG DC3	3021508	DOUG DC4
2420706	CVAC L13	3021424	DOUG DC3	3021510	DOUG DC4
*STC580	CVAC STC580	3021425	DOUG DC3	3021512	DOUG DC4
2422801	CVAC STC580	3021426	DOUG DC3	3021514	DOUG DC4
2422802	CVAC STC580	3021427	DOUG DC3	3021516	DOUG DC4
2422804	CVAC STC580	3021428	DOUG DC3	3021518	DOUG DC4
2422806	CVAC STC580	3021429	DOUG DC3	3021520	DOUG DC4
2423901	CVAC STC580			3021522	DOUG DC4
2423002	CVAC STC580	3021430	DOUG DC3		
2700102	DART G	3021431	DOUG DC3	3021524	DOUG DC4
2700104	DART G	3021432	DOUG DC3	3021526	DOUG DC4
2700106	DART G	3021433	DOUG DC3	3021528	DOUG DC4
2700108	DART G	3021434	DOUG DC3	3021530	DOUG DC4
2801702	DHAV DHC1	3021436	DOUG DC3	3021532	DOUG DC4
2801704	DHAV DHC1	3021438	DOUG DC3	3021534	DOUG DC4
2801712	DHAV DHC1	3021439	DOUG DC3	3021536	DOUG DC4
2801714	DHAV DHC1	3021440	DOUG DC3	3021537	DOUG DC4
2801716	DHAV DHC1	3021441	DOUG DC3	3021538	DOUG DC4
		3021442	DOUG DC3	3021702	DOUG DC6

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

FAA	SDR	FAA	SDR	FAA	SDR
3021706	DOUG DC6	3022028	DOUG DC9	3370410	FRCHLD24
3021708	DOUG DC6	3022030	DOUG DC9	3370412	FRCHLD24
3021710	DOUG DC6	3022034	DOUG DC9	3370414	FRCHLD24
3021712	DOUG DC6	3022036	DOUG DC9	3370416	FRCHLD24
3021714	DOUG DC6	3022037	DOUG DC9	3370418	FRCHLD24
3021802	DOUG DC7	3022038	DOUG DC9	3370502	FRCHLD24
3021804	DOUG DC7	3022030	DOUG DC9	3370504	FRCHLD24
3021805	DOUG DC7	302203F	DOUG DC9	3370506	FRCHLD24
3021806	DOUG DC7	302203H	DOUG DC9	3370508	FRCHLD24
3021807	DOUG DC7	302203K	DOUG DC9	3370510	FRCHLD24
3021808	DOUG DC7	3022051	DOUG DC9	3370512	FRCHLD24
3021901	DOUG DC8	302205A	DOUG DC9	3370514	FRCHLD24
3021902	DOUG DC8	302205C	DOUG DC9	3370516	FRCHLD24
3021904	DOUG DC8	3022065	DOUG DC9	3370518	FRCHLD24
3021906	DOUG DC8	3022066	DOUG DC9	3370520	FRCHLD24
3021908	DOUG DC8	3022067	DOUG DC9	3370602	FRCHLD24
3021908	DOUG DC8	302206A	DOUG DC9	3370604	FRCHLD24
3021900	DOUG DC8	302206C	DOUG DC9	3370606	FRCHLD24
302190F	DOUG DC8	302206E	DOUG DC9	3370608	FRCHLD24
302190H	DOUG DC8	302207A	DOUG DC9	3370610	FRCHLD24
3021910	DOUG DC8	302207C	DOUG DC9	3370612	FRCHLD24
3021912	DOUG DC8	3022070	DOUG DC9	3370614	FRCHLD24
3021914	DOUG DC8	302207N	DOUG DC9	3370616	FRCHLD24
3021916	DOUG DC8	302207P	DOUG DC9	3370618	FRCHLD24
3021918	DOUG DC8	3022080	DOUG DC9	3370620	FRCHLD24
3021918	DOUG DC8	5760102	EIRVCN20	3370622	FRCHLD24
3021910	DOUG DC8	5760104	EIRVON20	3370624	FRCHLD24
302191F	DOUG DC8	5760202	EIRVON20	3370626	FRCHLD24
302191H	DOUG DC8	5760204	EIRVON20	3370628	FRCHLD24
302191K	DOUG DC8	5760206	EIRVON20	3372102	FRCHLDC119
3021920	DOUG DC9	5760207	EIRVON20	3372106	FRCHLDC119
3021922	DOUG DC8	3280103	EMAIR MA1	3372108	FRCHLDC119
3021924	DOUG DC8	6070102	EMAIR MA1	3373002	FRCHLDF27
3021925	DOUG DC8	3300404	ENSTRMF28	3373004	FRCHLDF27
3021926	DOUG DC8	3300406	ENSTRMF28	3373006	FRCHLDF27
3021927	DOUG DC8	3300407	ENSTRMF28	3373008	FRCHLDF27
3021928	DOUG DC8	3300424	ENSTRMF28	3373010	FRCHLDF27
3021928	DOUG DC8	3300502	ENSTRMF28	3373016	FRCHLDF27
302192D	DOUG DC8	3300505	ENSTRMF28	3376502	FRCHLDFH1100
302192F	DOUG DC8	3300507	ENSTRMF28	3376504	FRCHLDFH1100
302192H	DOUG DC8	3480502	FLEET 168	4360302	FRCHLDFH1100
302192K	DOUG DC9	3480504	FLEET 168	4361405	FRCHLDFH1100
302192M	DOUG DC8	3370202	FRCHLD24	3371602	FRCHLC 62
3021952	DOUG DC8	3370204	FRCHLD24	3371604	FRCHLDM62
3021953	DOUG DC8	3370206	FRCHLD24	3371606	FRCHLDM62
3021954	DOUG DC8	3370208	FRCHLD24	3371608	FRCHLDM62
3021958	DOUG DC8	3370210	FRCHLD24	3371609	FRCHLDM62
3021950	DOUG DC8	3370212	FRCHLD24	3371610	FRCHLDM62
3021965	DOUG DC8	3370214	FRCHLD24	3371612	FRCHLDM62
3021970	DOUG DC8	3370216	FRCHLD24	3371614	FRCHLDM62
3021972	DOUG DC8	3370218	FRCHLD24	3371616	FRCHLDM62
3021978	DOUG DC8	3370220	FRCHLD24	3371618	FRCHLDM62
3021970	DOUG DC8	3370222	FRCHLD24	3371620	FRCHLDM62
302198A	DOUG DC8	3370224	FRCHLD24	3371622	FRCHLDM62
3021988	DOUG DC8	3370302	FRCHLD24	3371624	FRCHLDM62
302198F	DOUG DC8	3370304	FRCHLD24	3371626	FRCHLDM62
302198H	DOUG DC8	3370402	FRCHLD24	3371628	FRCHLDM62
3022002	DOUG DC9	3370404	FRCHLD24	3371630	FRCHLDM62
3022026	DOUG DC9	3370406	FRCHLD24	3371632	FRCHLDM62
3022028	DOUG DC9	3370408	FRCHLD24	3371634	FRCHLDM62

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

FAA	SDR	FAA	SDR	FAA	SDR
3371636	FRCHLDM62	3979908	GULSTMG164	4470404	HUGHES269
3371638	FRCHLDM62	3951202	GULSTMG21	4470406	HUGHES269
3371640	FRCHLDM62	3951204	GULSTMG21	4470502	HUGHES269
3371642	FRCHLDM62	3951206	GULSTMG21	4470504	HUGHES269
3374004	FRCHLDM62	3951208	GULSTMG21	4470702	HUGHES369
3374006	FRCHLDM62	3951210	GULSTMG21	4470706	HUGHES369
3760102	GENBALAX6	3951212	GULSTMG21	4470718	HUGHES369
3760202	GENBALAX6	3951214	GULSTMG21	4470720	HUGHES369
3800335	GLASFLLIBELL	3951216	GULSTMG21	4470722	HUGHES369
3800337	GLASFLLIBELL	3951218	GULSTMG21	4470728	HUGHES369
3800339	GLASFLLIBELL	3951502	GULSTMG44	4470730	HUGHES369
3800341	GLASFLLIBELL	3951504	GULSTMG44	4470802	HUGHES369
3800344	GLASFLLIBELL	3951506	GULSTMG44	4470806	HUGHES369
3800346	GLASFLLIBELL	3951508	GULSTMG44	2800402	HWKSLYDH104
1660104	PROB ASTIR	3951802	GULSTMG73	2800404	HWKSLYDH104
3910101	GRTLKS2T1	3960401	GULSTMG7	2800406	HWKSLYDH104
3910102	GRTLKS2T1	4300302	HELIO H250	2800408	HWKSLYDH104
3910104	GRTLKS2T1	4300802	HELIO H295	2800410	HWKSLYDH104
3910106	GRTLKS2T1	4300803	HELIO H295	2800412	HWKSLYDH104
3910107	GRTLKS2T1	4301101	HELIO H295	2800414	HWKSLYDH104
3910108	GRTLKS2T1	4301102	HELIO H295	2800416	HWKSLYDH104
3950306	GRUMANTBM	4301104	HELIO H295	2800417	HWKSLYDH104
3950308	GRUMANTBM	4300102	HELIO H391	2800418	HWKSLYDH104
3950310	GRUMANTBM	4300104	HELIO H391	2800420	HWKSLYDH104
0630820	GRUMAVAA1	4300106	HELIO H391	*DH114	HWKSLYDH114
0631202	GRUMAVAA1	4300202	HELIO H395	2800501	HWKSLYDH114
0632001	GRUMAVAA1	4300204	HELIO H395	2800502	HWKSLYDH114
3960100	GRUMAVAA1	4300206	HELIO H395	2800504	HWKSLYDH114
3960101	GRUMAVAA1	4360102	HILLERUH12	2800506	HWKSLYDH114
3960102	GRUMAVAA1	4360103	HILLERUH12	2800508	HWKSLYDH114
3960103	GRUMAVAA1	4360104	HILLERUH12	2800510	HWKSLYDH114
3960502	GRUMAVAA1	4360105	HILLERUH12	*DH125	HWKSLYDH125
0632005	GRUMAVAA5	4360106	HILLERUH12	4210112	HWKSLYDH125
3960104	GRUMAVAA5	4360107	HILLERUH12	4230102	HWKSLYDH125
3960105	GRUMAVAA5	4360108	HILLERUH12	4230112	HWKSLYDH125
3960107	GRUMAVAA5	4360109	HILLERUH12	4230130	HWKSLYDH125
3960124	GRUMAVAA5	4360110	HILLERUH12	4230134	HWKSLYDH125
3952801	GRUMAVG164	4360111	HILLERUH12	4230158	HWKSLYDH125
3960201	GRUMAVG164	4360112	HILLERUH12	4230160	HWKSLYDH125
3960202	GRUMAVG164	4360113	HILLERUH12	4230170	HWKSLYDH125
3960203	GRUMAVG164	4360114	HILLERUH12	1440502	HYNES B2
8052214	GRUMAVG164	4360115	HILLERUH12	1440504	HYNES B2
8052215	GRUMAVG164	4360116	HILLERUH12	1440506	HYNES B2
0630610	GULSTMAA1	4360117	HILLERUH12	1440508	HYNES B2
0630710	GULSTMAA1	4360118	HILLERUH12	0142002	ISRAEL1121
0631206	GULSTMAA1	4360119	HILLERUH12	0142006	ISRAEL1121
0631214	GULSTMAA1	4360120	HILLERUH12	0142010	ISRAEL1121
0631410	GULSTMAA5	4360121	HILLERUH12	4500102	ISRAEL1124
3960105	GULSTMAA5	4360122	HILLERUH12	4690502	JBMSTRDGA15
3960106	GULSTMAA5	4360124	HILLERUH12	4690504	JBMSTRDGA15
3970104	GULSTMAA5	4360125	HILLERUH12	4690506	JBMSTRDGA15
3970106	GULSTMAA5	4360126	HILLERUH12	4690508	JBMSTRDGA15
3953505	GULSTMG1159	4360127	HILLERUH12	4690510	JBMSTRDGA15
3970108	GULSTMG1159	4360128	HILLERUH12	4690512	JBMSTRDGA15
3952202	GULSTMG159	4360129	HILLERUH12	4690514	JBMSTRDGA15
3952702	GULSTMG164	4360130	HILLERUH12	4690516	JBMSTRDGA15
3952704	GULSTMG164	4360135	HILLERUH12	4690518	JBMSTRDGA15
3952802	GULSTMG164	4360809	HILLERUH12	8850402	KUHLOW
3952803	GULSTMG164	4470402	HUGHES269	8850406	KUHLOW
3952804	GULSTMG164	4470403	HUGHES269	8850408	KUHLOW

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

FAA	SDR	FAA	SDR	FAA	SDR
8850410	KUHLWD	5261634	LKHEED18	5810107	MNC0UP90
8850412	KUHLWD	5261636	LKHEED18	5810108	MNC0UP90
8850414	KUHLWD	5261638	LKHEED18	5810110	MNC0UP90
8850416	KUHLWD	5261640	LKHEED18	5810130	MNC0UP90
8850418	KUHLWD	5261642	LKHEED18	5870101	MNMITEM18
8850420	KUHLWD	5260102	LKHEEDPV1	5870102	MNMITEM18
8850422	KUHLWD	5260104	LKHEEDPV1	5870104	MNMITEM18
5090204	LAIKFN10	5260106	LKHEEDPV1	5870106	MNMITEM18
5090206	LAIKFN10	5260401	LKHEEDT33	5870108	MNMITEM18
5090208	LAIKFN10	5260402	LKHEEDT33	5870202	MOONEYM20
5170102	LEAR 23	5260404	LKHEEDT33	5870204	MOONEYM20
5170302	LEAR 24	5260406	LKHEEDT33	5870206	MOONEYM20
5170304	LEAR 24	8190102	LUSCOM8	5870208	MOONEYM20
5170306	LEAR 24	8190104	LUSCOM8	5870210	MOONEYM20
5170307	LEAR 24	8190106	LUSCOM8	5870212	MOONEYM20
5170308	LEAR 24	8190108	LUSCOM8	5870214	MOONEYM20
5170309	LEAR 24	8190110	LUSCOM8	5870216	MOONEYM20
5170310	LEAR 24	8190112	LUSCOM8	5870219	MOONEYM20
5170311	LEAR 24	8190114	LUSCOM8	5870220	MOONEYM20
5170316	LEAR 24	8190116	LUSCOM8	5870302	MOONEYM20
5170317	LEAR 24	8190118	LUSCOM8	5870304	MOONEYM20
5170506	LEAR 25	8190120	LUSCOM8	5870306	MOONEYM20
5170509	LEAR 25	8190122	LUSCOM8	5870308	MOONEYM20
5170511	LEAR 25	8190124	LUSCOM8	5870310	MOONEYM20
5170513	LEAR 25	8190126	LUSCOM8	5870312	MOONEYM20
5170514	LEAR 25	8190128	LUSCOM8	5870314	MOONEYM20
5170516	LEAR 25	8190130	LUSCOM8	5870316	MOONEYM20
5170600	LEAR 35	8190132	LUSCOM8	5870601	MOONEYM20
5170601	LEAR 35	8190154	LUSCOM8	5870605	MOONEYM20
5170602	LEAR 35	819019E	LUSCOM8	8120412	MRCRTIS205
5170603	LEAR 35	5450702	MARTIN404	5780404	MTSBSIMU2
1360336	LET L13	5460102	MAULE M4	5780405	MTSBSIMU2
5261402	LKHEED12A	5460104	MAULE M4	5780406	MTSBSIMU2
5261404	LKHEED12A	5460105	MAULE M4	5790407	MTSBSIMU2
5261406	LKHEED12A	5460106	MAULE M4	5780408	MTSBSIMU2
5261408	LKHEED12A	5460108	MAULE M4	5780409	MTSBSIMU2
5261410	LKHEED12A	5460112	MAULE M4	5780410	MTSBSIMU2
*1329	LKHEED1329	5460114	MAULE M4	5780411	MTSBSIMU2
5263102	LKHEED1329	5460116	MAULE M4	5780412	MTSBSIMU2
5263104	LKHEED1329	5460120	MAULE M4	5780413	MTSBSIMU2
5263106	LKHEED1329	5460130	MAULE M4	5780414	MTSBSIMU2
5263108	LKHEED1329	5460132	MAULE M4	5780440	MTSBSIMU2
5263110	LKHEED1329	5460133	MAULE M5	5780460	MTSBSIMU2
5263116	LKHEED1329	5460134	MAULE M5	9230602	MULTECD16
5263119	LKHEED1329	5460135	MAULE M5	9230604	MULTECD16
5263125	LKHEED1329	5500604	MCCULHJ2	9230606	MULTECD16
5261602	LKHEED18	5480102	MCLISHFUNK8	9230608	MULTECD16
5261603	LKHEED18	5480104	MCLISHFUNK8	9230610	MULTECD16
5261604	LKHEED18	5480106	MCLISHFUNK8	9230612	MULTECD16
5261606	LKHEED18	5480108	MCLISHFUNK8	6400702	NAMER 825
5261608	LKHEED18	5480202	MCLISHFUNK8	6400704	NAMER 825
5261610	LKHEED18	5480204	MCLISHFUNK8	6400705	NAMER 825
5261612	LKHEED18	5480206	MCLISHFUNK8	6400706	NAMER 825
5261614	LKHEED18	5480208	MCLISHFUNK8	6400708	NAMER 825
5261616	LKHEED18	5650202	MEYERSOTW	6400710	NAMER 825
5261618	LKHEED18	5650204	MEYERSOTW	6400712	NAMER 825
5261620	LKHEED18	5650206	MEYERSOTW	6400713	NAMER 825
5261622	LKHEED18	5650208	MEYERSOTW	6400714	NAMER 825
5261624	LKHEED18	5810102	MNC0UP90	6400718	NAMER 825
5261632	LKHEED18	5810104	MNC0UP90	6400719	NAMER 825

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

FAA	SDR	FAA	SDR	FAA	SDR
6402301	NAMER F51	6150142	NAVIONNAVION	7100520	PIPER J3
6402302	NAMER F51	6150144	NAVIONNAVION	7100525	PIPER J3
6402303	NAMER F51	6150146	NAVIONNAVION	7100527	PIPER J3
6402304	NAMER F51	6150148	NAVIONNAVION	7100530	PIPER J3
6402305	NAMER F51	6150160	NAVIONNAVION	7100532	PIPER J3
6402306	NAMER F51	6150162	NAVIONNAVION	7100534	PIPER J3
6402307	NAMER F51	6150164	NAVIONNAVION	7100536	PIPER J3
6402308	NAMER F51	6150166	NAVIONNAVION	7100538	PIPER J3
6402309	NAMER F51	6150168	NAVIONNAVION	7100540	PIPER J3
6402310	NAMER F51	6150170	NAVIONNAVION	7100541	PIPER J3
6402314	NAMER F51	6150172	NAVIONNAVION	7100542	PIPER J3
6402502	NAMER NA260	6150174	NAVIONNAVION	7100544	PIPER J3
6402504	NAMER NA260	6150176	NAVIONNAVION	7100546	PIPER J3
6402505	NAMER NA260	6150178	NAVIONNAVION	7100548	PIPER J3
6402506	NAMER NA260	6383006	NORD SV4	7100550	PIPER J3
6402512	NAMER NA260	8141608	ORLHELH19	7100552	PIPER J3
1922828	NAMER T6	8141601	ELH19	7101102	PIPER J3
6400402	NAMER T6	8141610	HELH19	7101104	PIPER J3
6400404	NAMER T6	8141612	ORLHELH19	7100602	PIPER J4
6400405	NAMER T6	8141614	JRLHELH19	7100604	PIPER J4
6400406	NAMER T6	3141616	ORLHELH19	7100605	PIPER J4
6400407	NAMER T6	8141618	ORLHELH19	7100606	PIPER J4
6400408	NAMER T6	056040H	PICARDA46	7100608	PIPER J4
6400410	NAMER T6	7001218	PICARDA46	7100610	PIPER J4
6400412	NAMER T6	700122A	PICARDA46	7100612	PIPER J4
6400414	NAMER T6	7090103	PILATS84	7100614	PIPER J4
6400415	NAMER T6	7090104	PILATS84	7100202	PIPER J5
6400416	NAMER T6	7106001	PIPER 600	7100204	PIPER J5
6400417	NAMER T6	7106002	PIPER 600	7100702	PIPER J5
6400418	NAMER T6	7106010	PIPER 600	7100704	PIPER J5
6400419	NAMER T6	7106011	PIPER 600	7100706	PIPER J5
6400420	NAMER T6	8360604	PIPER 600	7100708	PIPER J5
6400422	NAMER T6	8360605	PIPER 600	7100710	PIPER J5
6400423	NAMER T6	8360607	PIPER 600	7100712	PIPER J5
6400424	NAMER T6	8360608	PIPER 600	7101202	PIPER PA12
6400426	NAMER T6	7100402	PIPER J2	7101204	PIPER PA12
6400430	NAMER T6	7100412	PIPER J2	7101402	PIPER PA14
6400431	NAMER T6	7100501	PIPER J3	7101502	PIPER PA15
6400432	NAMER T6	7100502	PIPER J3	7101602	PIPER PA16
6400434	NAMER T6	7100503	PIPER J3	7101604	PIPER PA16
6400436	NAMER T6	7100504	PIPER J3	7101702	PIPER PA17
6400441	NAMER T6	7100506	PIPER J3	7101802	PIPER PA18
6400442	NAMER T6	7100508	PIPER J3	7101804	PIPER PA18
6120202	NAVAL N3N	7100509	PIPER J3	7101806	PIPER PA18
6150104	NAVIONNAVION	7100510	PIPER J3	7101808	PIPER PA18
6150106	NAVIONNAVION	7100511	PIPER J3	7101809	PIPER PA18
6150108	NAVIONNAVION	7100512	PIPER J3	7101810	PIPER PA18
6150110	NAVIONNAVION	7100514	PIPER J3	7101811	PIPER PA18
6150112	NAVIONNAVION	7100516	PIPER J3	7101812	PIPER PA18
6150114	NAVIONNAVION	7100518	PIPER J3	7101813	PIPER PA18
6150116	NAVIONNAVION	7100519	PIPER J3	7101814	PIPER PA18
6150118	NAVIONNAVION	7100520	PIPER J3	7101815	PIPER PA18
6150120	NAVIONNAVION	7100521	PIPER J3	7101816	PIPER PA18
6150122	NAVIONNAVION	7100522	PIPER J3	7101818	PIPER PA18
6150130	NAVIONNAVION	7100524	PIPER J3	7101820	PIPER PA18
6150132	NAVIONNAVION	7100525	PIPER J3	7101822	PIPER PA18
6150134	NAVIONNAVION	7100526	PIPER J3	7101824	PIPER PA18
6150136	NAVIONNAVION	7100527	PIPER J3	7101826	PIPER PA18
6150138	NAVIONNAVION	7100528	PIPER J3	7101828	PIPER PA18
6150140	NAVIONNAVION	7100529	PIPER J3		

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

FAA	SDR	FAA	SDR	FAA	SDR
7101830	PIPER PA18	7102815	PIPER PA28	05604XW	RAVEN S50
7101832	PIPER PA18	7102816	PIPER PA28	7480202	RAVEN S50
7101834	PIPER PA18	7102817	PIPER PA28	7480204	RAVEN S50
7101836	PIPER PA18	7102818	PIPER PA28	7480402	RAVEN S55
7101837	PIPER PA18	7102819	PIPER PA28	0560477	RAVEN S60
7101838	PIPER PA18	7102824	PIPER PA28	7480604	RAVEN S60
7101902	PIPER PA18	7103002	PIPER PA30	7480606	RAVEN S60
7101903	PIPER PA18	7103015	PIPER PA30	7480610	RAVEN S60
7101904	PIPER PA18	7103902	PIPER PA30	7530120	REIMS 150
7101906	PIPER PA18	7104002	PIPER PA30	7530124	REIMS 150
7102002	PIPER PA20	7103102	PIPER PA31	7530128	REIMS 150
7102004	PIPER PA20	7103104	PIPER PA31	7530132	REIMS 150
7102006	PIPER PA20	7103105	PIPER PA31	7530134	REIMS 150
7102008	PIPER PA20	7103110	PIPER PA31	7530212	REIMS 150
7102010	PIPER PA20	7103120	PIPER PA31	0144701	RKWE1112
7102012	PIPER PA20	7103124	PIPER PA31T	7630302	RKWE1112
7102016	PIPER PA20	7103126	PIPER PA31T	7630303	RKWE1112
7102202	PIPER PA22	7103206	PIPER PA32	7630306	RKWE1112
7102203	PIPER PA22	7103208	PIPER PA32	7630307	RKWE1112
7102204	PIPER PA22	7103210	PIPER PA32	7630314	RKWE1112
7102206	PIPER PA22	7103211	PIPER PA32	7630315	RKWE1112
7102208	PIPER PA22	7103212	PIPER PA32	7630316	RKWE1112
7102210	PIPER PA22	7103213	PIPER PA32	0141102	RKWE1500
7102212	PIPER PA22	7103214	PIPER PA32	0141104	RKWE1500
7102214	PIPER PA22	7103215	PIPER PA32	0141106	RKWE1500
7102216	PIPER PA22	7103216	PIPER PA32	0141107	RKWE1500
*PA23	PIPER PA23	7103217	PIPER PA32	0141108	RKWE1500
7102302	PIPER PA23	7103218	PIPER PA32	7630410	RKWE1500
7102303	PIPER PA23	7103222	PIPER PA32	0141202	RKWE1520
7102304	PIPER PA23	7103404	PIPER PA34	0141402	RKWE1560
7102305	PIPER PA23	7103405	PIPER PA34	0141404	RKWE1560
7102306	PIPER PA23	7103406	PIPER PA34	0141406	RKWE1560
7102308	PIPER PA23	7103407	PIPER PA34	0141408	RKWE1680
7102309	PIPER PA23	7103408	PIPER PA34	0141602	RKWE1680
7102310	PIPER PA23	7103602	PIPER PA36	0141604	RKWE1680
7102402	PIPER PA24	7103610	PIPER PA36	0141606	RKWE1680
7102403	PIPER PA24	7103612	PIPER PA36	0141608	RKWE1680
7102404	PIPER PA24	7103614	PIPER PA36	0141610	RKWE1680
7102406	PIPER PA24	7103812	PIPER PA38	0141611	RKWE1680
7102407	PIPER PA24	7104402	PIPER PA44	0141612	RKWE1680
7102408	PIPER PA24	7300102	PRATT PRG1	0141802	RKWE1680
7102409	PIPER PA24	7300104	PRATT PRG1	7630513	RKWE1680
7102502	PIPER PA25	7300106	PRATT PRG1	0141712	RKWE1680TP
7102503	PIPER PA25	0140302	PROPJT200	0141714	RKWE1680TP
7102504	PIPER PA25	0140304	PROPJT200	0141716	RKWE1680TP
7102508	PIPER PA25	0140306	PROPJT200	0141718	RKWE1680TP
7102516	PIPER PA28	0140308	PROPJT200	0141720	RKWE1690TP
7102801	PIPER PA28	0140312	PROPJT200	0141722	RKWE1690TP
7102802	PIPER PA28	0140314	PROPJT200	7630515	RKWE1690TP
7102803	PIPER PA28	5650302	PROPJT200	7630516	RKWE1690TP
7102804	PIPER PA28	5650304	PROPJT200	7630520	RKWE1700
7102805	PIPER PA28	5650306	PROPJT200	*NA265	RKWE1NA265
7102806	PIPER PA28	5650308	PROPJT200	6402602	RKWE1NA265
7102807	PIPER PA28	5650310	PROPJT200	6402604	RKWE1NA265
7102808	PIPER PA28	6480116	RANKIN65	6402606	RKWE1NA265
7102809	PIPER PA28	6480118	RANKIN65	6402608	RKWE1NA265
7102810	PIPER PA28	6480120	RANKIN65	6402610	RKWE1NA265
7102811	PIPER PA28	6480122	RANKIN65	6402612	RKWE1NA265
7102812	PIPER PA28	6480124	RANKIN65	6402614	RKWE1NA265
7102813	PIPER PA28	7480502	RAVEN RX6	6402618	RKWE1NA265
7102814	PIPER PA28	05604XT	RAVEN S50		

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

FAA	SDR	FAA	SDR	FAA	SDR
7630101	RKWE/LNA265	3050515	SCWZERSG1	8360806	SMITH 600
7630104	RKWE/LNA265	8053604	SCWZERSG1	8680802	SNIAS 350
7630106	RKWE/LNA265	8050202	SCWZERSG2	8680803	SNIAS 350
7630107	RKWE/LNA265	8050204	SCWZERSG2	8680506	SNIAS SA318
7630108	RKWE/LNA265	8050206	SCWZERSG2	8680508	SNIAS SA318
3801206	ROLSCHLS	8050207	SCWZERSG2	8680511	SNIAS SA318
3801208	ROLSCHLS	8050210	SCWZERSG2	8402842	SOCATAMS894
3801211	ROLSCHLS	8050602	SCWZERSG2	8400125	SOCATARALLYE
3801213	ROLSCHLS	8050604	SCWZERSG2	8400131	SOCATARALLYE
3801214	ROLSCHLS	8050606	SCWZERSG2	8400135	SOCATARALLYE
7830502	RYAN ST3	8050608	SCWZERSG2	38015VC	SPHRTHCIRRUS
7830504	RYAN ST3	8050610	SCWZERSG2	38019VE	SPHRTHCIRRUS
7830506	RYAN ST3	8050612	SCWZERSG2	3801925	SPHRTHNIMBUS
7830402	RYAN STA	8050614	SCWZERSG2	38019VD	SPHRTHNIMBUS
7830404	RYAN STA	8051404	SCWZERSG2	38019VF	SPHRTHNIMBUS
38015H2	SCHLERAS15	8051604	SCWZERSG2	38019VG	SPHRTHNIMBUS
38015H2	SCHLERAS15	8051606	SCWZERSG2	38019VJ	SPHRTHNIMBUS
3801508	SCHLERASM19	8050902	SCWZERTG3A	8632002	STNSON10
3801506	SCHLERASW20	8070802	SEMC0 CLNGER	8632004	STNSON10
3801559	SCHLERK8	8071701	SEMC0 MODEL T	8632102	STNSON10
3801563	SCHLERK8	8141602	SKRSKY555	8632104	STNSON10
3801567	SCHLERK8	8141604	SKRSKY555	8632106	STNSON10
38019VK	SCHLERK8	8141606	SKRSKY555	8630202	STNSONL5
38019VL	SCHLERK8	8141615	SKRSKY555	8630204	STNSONL5
3801525	SCHLERKA6	814161E	SKRSKY555	8630206	STNSONL5
3801528	SCHLERKA6	814161G	SKRSKY555	8630208	STNSONL5
3801530	SCHLERKA6	814161J	SKRSKY555	8630210	STNSONL5
3801533	SCHLERKA6	9141622	SKRSKY555	8630212	STNSONL5
3801535	SCHLERKA6	8141630	SKRSKY555	8630214	STNSONL5
3801536	SCHLERKA6	8141632	SKRSKY555	8631502	STNSONSR9
3801537	SCHLERKA6	8141801	SKRSKY558	8631504	STNSONSR9
3801540	SCHLERKA6	8141802	SKRSKY558	8631506	STNSONSR9
3801542	SCHLERKA6	9141804	SKRSKY558	8631508	STNSONSR9
3801545	SCHLERKA6	8141806	SKRSKY558	8631510	STNSONSR9
8050101	SCWZERSG1	8141808	SKRSKY558	8631512	STNSONSR9
8050102	SCWZERSG1	8141811	SKRSKY558	8631514	STNSONSR9
8050103	SCWZERSG1	8141814	SKRSKY558	8631516	STNSONSR9
8050104	SCWZERSG1	8141815	SKRSKY558	8631518	STNSONSR9
8050105	SCWZERSG1	8141831	SKRSKY558	8631520	STNSONSR9
8050106	SCWZERSG1	8141836	SKRSKY558	8631522	STNSONSR9
8050107	SCWZERSG1	8141837	SKRSKY558	8631524	STNSONSR9
8050108	SCWZERSG1	8141839	SKRSKY558	8631526	STNSONSR9
8050110	SCWZERSG1	8141803	SKRSKY558T	8631528	STNSONSR9
8050111	SCWZERSG1	8141805	SKRSKY558T	3080202	STOLAMRC3
8050112	SCWZERSG1	8141807	SKRSKY558T	3080203	STOLAMRC3
8050113	SCWZERSG1	8141840	SKRSKY558T	3080204	STOLAMRC3
8050114	SCWZERSG1	8141842	SKRSKY558T	3080206	STOLAMRC3
8050116	SCWZERSG1	0140202	SLINDS100	5410102	STOLAMRC3
8050118	SCWZERSG1	0140203	SLINDS100	8730202	SUPAC LA
8050120	SCWZERSG1	0140204	SLINDS100	8730204	SUPAC LA
8050122	SCWZERSG1	0140208	SLINDS100	8730206	SUPAC LA
8050124	SCWZERSG1	0140210	SLINDS100	8730208	SUPAC LA
8050126	SCWZERSG1	9550102	SLINDS100	8730302	SUPAC V
8050146	SCWZERSG1	9550104	SLINDS100	8730304	SUPAC V
8050147	SCWZERSG1	9550112	SLINDS100	8730306	SUPAC V
8050148	SCWZERSG1	8360602	SMITH 600	8730308	SUPAC V
8050149	SCWZERSG1	8360604	SMITH 600	*SA 226	SWRNGNSA226
8050151	SCWZERSG1	8360605	SMITH 600	8780122	SWRNGNSA226
8050501	SCWZERSG1	8360606	SMITH 600	8780404	SWRNGNSA226
8050502	SCWZERSG1	8360607	SMITH 600	8780405	SWRNGNSA226
8050504	SCWZERSG1	8360802	SMITH 600	8780802	SWRNGNSA226

TABLE D-1. SDR AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

FAA	SDR	FAA	SDR	FAA	SDR
8780112	SWRNGNSA26	9230402	UNIVAR108	9600834	WACO YK
8850202	TCRAFTA	9230404	UNIVAR108	9600835	WACO YK
8850302	TCRAFTBC	9230406	UNIVAR108	9600836	WACO YK
8850304	TCRAFTBC	9230408	UNIVAR108	9600838	WACO YK
8850306	TCRAFTBC	9230412	UNIVAR108	9600840	WACO YK
8850308	TCRAFTBC	9230414	UNIVAR108	0190406	WOODHM65
8850310	TCRAFTBC	9230416	UNIVAR108	0190712	WOODHM65
8850312	TCRAFTBC	9230418	UNIVAR108	0190714	WOODHM65
8850314	TCRAFTBC	0420102	JNIVAR415	0190716	WOODHM65
8850316	TCRAFTBC	0420104	UNIVAR415	0190718	WOODHM65
8850318	TCRAFTBC	0420202	UNIVAR415	0190920	WOODHM65
8850320	TCRAFTBC	0420204	JNIVAR415	0190922	WOODHM65
8850321	TCRAFTBC	0420302	UNIVAR415	0190924	WOODHM65
8850322	TCRAFTBC	0420304	UNIVAR415	0190926	WOODHM65
8850323	TCRAFTBC	0420306	UNIVAR415	0190928	WOODHM65
8850324	TCRAFTBC	0420308	JNIVAR415	0190930	WOODHM65
9230902	TCRAFTBC	0420310	UNIVAR415	0190932	WOODHM65
9230904	TCRAFTBC	0420312	JNIVAR415	0190934	WOODHM65
9230906	TCRAFTBC	0420314	UNIVAR415	9630404	WTHRLY201
9230908	TCRAFTBC	0420316	UNIVAR415	9630406	WTHRLY201
9230910	TCRAFTBC	0420318	JNIVAR415	9630408	WTHRLY201
9230912	TCRAFTBC	0420320	UNIVAR415	9630410	WTHRLY201
9230914	TCRAFTBC	0420322	UNIVAR415		
9230916	TCRAFTBC	0420324	UNIVAR415		
9230918	TCRAFTBC	0420326	JNIVAR415		
9230920	TCRAFTBC	0420328	UNIVAR415		
9230922	TCRAFTBC	0420330	JNIVAR415		
9230924	TCRAFTBC	0420332	UNIVAR415		
9230926	TCRAFTBC	0420334	JNIVAR415		
9230928	TCRAFTBC	0420336	JNIVAR415		
8850326	TCRAFTBF	0420338	UNIVAR415		
8850328	TCRAFTBF	0420340	UNIVAR415		
8850330	TCRAFTBF	0420402	UNIVAR415		
8850332	TCRAFTBF	0420404	JNIVAR415		
8850334	TCRAFTBF	0420406	UNIVAR415		
8850336	TCRAFTBF	0420408	UNIVAR415		
8850338	TCRAFTBF	0420410	UNIVAR415		
8850340	TCRAFTBF	0420502	UNIVAR415		
8850342	TCRAFTBF	0420504	UNIVAR415		
8850344	TCRAFTBF	0420702	UNIVAR415		
8850346	TCRAFTBL	0420722	UNIVAR415		
8850348	TCRAFTBL	0540102	UNIVAR415		
8850350	TCRAFTBL	0540104	JNIVAR415		
8850352	TCRAFTBL	5872014	UNIVAR415		
8850354	TCRAFTBL	5872018	UNIVAR415		
8850356	TCRAFTBL	5940202	VARGA 2150		
8850358	TCRAFTBL	5940204	VARGA 2150		
8890402	TEMCO 11A	9601202	WACO ASD		
8890404	TEMCO 11A	9600702	WACO GXE		
8970105	THUNDRA7	9600304	WACO R		
8970107	THUNDRA7	9600422	WACO R		
8970108	THUNDRA7	9600306	WACO U		
8970110	THUNDRA7	9600404	WACO U		
0190402	TRYTEKK	9600405	WACO U		
0190404	TRYTEKK	9600508	WACO U		
9230102	UNIVACGC1	9600510	WACO U		
9230104	UNIVACGC1	9601302	WACO UPF7		
9230106	UNIVACGC1	9601304	WACO UPF7		
9230108	UNIVACGC1	9600816	WACO YK		
9230110	UNIVACGC1	9600818	WACO YK		
9230112	UNIVACGC1	9600832	WACO YK		

APPENDIX E.

SDR ENGINE GROUP NAME - FAA MANUFACTURER/MODEL CODE TABLE

This table shows the correspondence between the Service Difficulty Reporting (SDR) engine group names and the FAA engine manufacturer/model (MM) codes and appears in alphabetical order by SDR name. The SDR names combine MM codes for engines of similar design into groups for analytic purposes. The table contains entries for all the SDR names appearing in the engine statistics table in the body of this report.

TABLE E-1. SDR ENGINE GROUP NAME - FAA MANUFACTURER/MODEL CODES

SDR	FAA	SDR	FAA	SDR	FAA
ALLSN 250C	03002	DHAVXXGIPSY	20004	LYC	0320 41509
ALLSN 250C	03011	FCD 6440	26303	LYC	0340 41510
ALLSN 250C	03013	FRNKLY4AC150	27002	LYC	0360 41504
ALLSN 5010	*5010	FRNKLN4AC150	27003	LYC	0360 41511
ALLSN 5010	03004	FRNKLN4AC150	27004	LYC	0360 41513
ALLSN 5010	03005	FRNKLN4AC176	27006	LYC	0360 41514
ALLSN 5010	03006	FRNKL 44AC176	27007	LYC	0360 41515
ANTRMCNCCULH	42501	FRNKL 44AC199	27008	LYC	0360 41522
ARSCHTFE731	*TFE7	FRNKLN4AC199	27009	LYC	0360 41524
ARSPC-ITFE731	01518	FRNKLY4AC199	27010	LYC	0435 *0435
ARSCHTPE331	*TPE3	FRNKLN644150	27024	LYC	0435 41516
ARSCHTPE331	01502	FRNKLN64165	27025	LYC	0435 41517
ARSCHTPE331	01506	FRNKL 4544200	27027	LYC	0435 41518
ARSPC-ITPE331	01510	FRNKLN648215	27030	LYC	0435 41519
ARSCHTPE331	01512	FRNKLN6AV335	27020	LYC	0435 41520
CJNT 5285	17038	FRNKLY5AV350	27043	LYC	0435 41521
CJNT 975	17037	FRNKLN6V4	27033	LYC	0435 41523
CJNT A40	17001	FRNKLN6V6245	27036	LYC	0435 41525
CJNT A50	17002	FRNKLY6VS335	27040	LYC	0435 41526
CJNT A55	17003	GE CF700	*CF70	LYC	0480 41527
CJNT A75	17005	GE CF700	30010	LYC	0480 41529
CJNT A90	17006	GE CJ610	*CJ61	LYC	0540 *0540
CJNT C125	17011	GE CJ610	30002	LYC	0540 41535
CJNT C145	17012	GE CJ610	30006	LYC	0540 41530
CJNT C95	17008	GE CJ805	*CJ80	LYC	0540 41531
CJNT C90	17009	GE CJ805	30004	LYC	0540 41532
CJNT E185	17014	GE CJ805F	30005	LYC	0540 41533
CJNT E225	17015	GE CT58	*CT58	LYC	0540 41534
CJNT 0200	17020	GE CT58	30001	LYC	0540 41535
CJNT 0300	17022	GE CT58	30008	LYC	0540 41538
CJNT 0300	17024	GLADENK5	37503	LYC	0541 41536
CJNT 0346	17033	GLADENR5	37504	LYC	0541 41539
CJNT 0360	17023	JACOBPR755	35006	LYC	0720 41546
CJNT 0360	17025	JACOBPR755	35007	LYC	R680 41540
CJNT 0470	*0470	JACOBPR755	35008	LYC	R680 41541
CJNT 0470	17026	JACOBPR755	35003	LYC	R680 41542
CJNT 0470	17027	JACOBPR755	35005	LYC	PS80 41543
CJNT 0470	17028	LYC LFS101	41560	LYC	R680 41544
CJNT 0470	17029	LYC 0145	41501	LYC	PS80 41545
CJNT 0520	*0520	LYC 0145	41502	LYC	T53 41552
CJNT 0520	17032	LYC 0145	41503	MANSCOC4	43504
CJNT 0520	17035	LYC 0235	41505	OTHER	*AVON
CJNT 0520	17040	LYC 0290	41506	OTHER	*BAST
CJNT R670	17016	LYC 0320	41500	OTHER	*CF6
CJNT R670	17018	LYC 0320	41508	OTHER	*R182

TABLE E-1. SDR ENGINE GROUP NAME - FAA MANUFACTURER/MODEL CODES
(CONTINUED)

SDR	FAA	SDR	FAA	SDR	FAA		
OTHER	00585	PWA	JT12	*JT12	PWA	R985	52008
OTHER	01505	PWA	JT12	52042	RRGYCEDART	*DART	
OTHER	03003	PWA	JT12	52052	RRGYCEDART	54503	
OTHER	03019	PWA	JT15	52060	RRGYCEDART	54504	
OTHER	03312	PWA	JT15	52112	RRGYCEDART	54505	
OTHER	04501	PWA	JT3C	*JT3C	RRGYCEDART	54506	
OTHER	17013	PWA	JT3C	52036	RRGYCEDART	54507	
OTHER	17030	PWA	JT3D	*JT3D	RRGYCEDART	54508	
OTHER	20003	PWA	JT3D	52039	RRGYCEDART	54509	
OTHER	26002	PWA	JT4	*JT4	RRGYCEDART	54522	
OTHER	27005	PWA	JT4	52037	RRGYCEDART	54553	
OTHER	27011	PWA	JT8	*JT8	RRGYCEGIPSY	20005	
OTHER	27026	PWA	JT8	52044	RRGYCEGIPSY	20006	
OTHER	30020	PWA	JT8	52046	RRGYCEGIPSY	20007	
OTHER	31701	PWA	JT8	52048	RRGYCEGIPSY	20008	
OTHER	37002	PWA	JT8	52049	RRGYCER8211	*R821	
OTHER	41549	PWA	JT9	*JT9	RRGYCER3211	44554	
OTHER	41553	PWA	JT9	52050	RRGYCER8211	54554	
OTHER	49703	PWA	PT6	*PT6	RRGYCESPEY	*SPEY	
OTHER	49706	PWA	PT6	52043	RRGYCESPEY	54519	
OTHER	51001	PWA	PT6	61501	RRGYCESPEY	54521	
OTHER	52001	PWA	PT6	61503	RRGYCESPEY	54523	
OTHER	52047	PWA	PT6	61504	RRGYCEVIPER	*VIPE	
OTHER	54501	PWA	PT6	61506	RRGYCEVIPER	10201	
OTHER	54510	PWA	PT6T	52045	RRGYCEVIPER	54550	
OTHER	54517	PWA	PT6T	61502	RRGYCEVIPER	54552	
OTHER	60002	PWA	R1340	*R134	TMECA ARTST3	60003	
OTHER	60004	PWA	R1340	52009	TMECA AST14T	60014	
OTHER	60005	PWA	R1340	52010	TMECA AST2T	60006	
OTHER	60008	PWA	R1340	52011	TMECA AST3	60007	
OTHER	60009	PWA	R1340	52012	WARNER165	64504	
OTHER	60012	PWA	R1340	52016	WARNER185	64505	
OTHER	60014	PWA	R1340	*R183	WARNER50	64503	
OTHER	60020	PWA	R1340	52017	WRIGHTJ5	67007	
OTHER	67018	PWA	R1830	52018	WRIGHTR3350	*R335	
OTHER	67019	PWA	R1830	52019	WRIGHTR3350	67032	
OTHER	67021	PWA	R1830	52020	WRIGHTR3350	67033	
OTHER	67024	PWA	R2000	*R200	WRIGHTR3350	67034	
OTHER	67025	PWA	R2000	52021	WRIGHTR3350	67037	
OTHER	67026	PWA	R2000	52023	WRIGHTR3350	67038	
OTHER	67027	PWA	R2800	*R280	WRIGHTR760	67009	
OTHER	67028	PWA	R2800	52024	WRIGHTR760	67010	
OTHER	67029	PWA	R2800	52025	WRIGHTR760	67011	
OTHER	67030	PWA	R2800	52026	WRIGHTR975	67012	
OTHER	67031	PWA	R985	*R985	WRIGHTR975	67015	
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